

State of California  
The Resources Agency

DEPARTMENT OF WATER RESOURCES  
Division of Operations and Maintenance

# STATE WATER PROJECT OPERATIONS DATA

For the month of:  
**October**  
**2013**

**Edmund G. Brown Jr.**  
Governor  
State of California

**John Laird**  
Secretary for Resources  
The Resources Agency

**Mark Cowin**  
Director  
Department of Water Resources

This monthly report of operational data for the State Water Project (SWP) has been published since January 1965. Monthly SWP Operations Data Reports from January 1990 have been made available on the Internet at <http://www.water.ca.gov/swp/operationscontrol/projectwide.cfm>. It provides the State Water Contractors, public agencies, consultants, and others with the daily and monthly status of SWP's water and power operations.

Revisions to these data will appear in the Annual Report of Operations reflecting corrections made after the monthly summaries have been printed.

Printed copies of these reports may be available for a fee.  
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**JOHN LAIRD, Secretary for Resources**

Department of Water Resources  
**MARK COWIN, Director**

Department of Water Resources  
**LAURA KING MOON, Chief Deputy Director**

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The organization shown above represents staff and positions relevant to this report as of month of publication, January 2015. It is the Department's policy to not show staff in "Acting" or "Temporary" positions.

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## **MONTHLY HIGHLIGHTS**

The following activities, actions, and conditions affected State Water Project (SWP) operations during October 2013:

Statewide precipitation was about 25 percent of average for water year 2013 – 2014 through October 31. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available on the internet at: "[http://cdec.water.ca.gov/snow\\_rain.html](http://cdec.water.ca.gov/snow_rain.html)".

Snowpack data is compiled four times annually, for the months of January, February, March, and April, by the California Department of Water Resources (DWR) in Bulletin 120. The Bulletin also contains forecasts of seasonal runoff volume from the State's major watersheds, summaries of precipitation, and reservoir storages in various regions of the State. October snowpack data is not available.

This month is the beginning of the new 2013--2014 water year. A "water year" is a 12-month period, just like a calendar year, except that a water year begins on October 1, and ends on September 30. The intent is to capture data that more fully represents a complete hydrologic cycle of winter and summer as opposed to providing statistical totals that only reflect partial extremes in operational activity.

Cumulative unimpaired runoff for the Sacramento River Region for water year 2013 – 2014 was 0.3 maf, 67 percent of average. Statewide runoff for water year 2013 – 2014 was 65 percent of average.

Statewide reservoir storage was 75 percent of average to date. Total storage in major SWP reservoirs at the end of October was about 2.30 maf compared to 3.53 maf at this time in 2012. On October 31, end-of-month storage at Lake Oroville was about 1.53 maf, as compared to 1.82 maf at this time in 2012. The State share of San Luis Reservoir's end-of-month storage was about 182 taf, as compared with 308 taf at this time in 2012. The combined storage in SWP's southern reservoirs was about 587 taf, compared with about 402 taf at this time in 2012.

The cumulative SWP water deliveries to date through October were about 2.57 maf. Water deliveries are a combination of project, transfer, and exchange classifications. Total deliveries through this same period in 2012 were 3.65 maf.

By mutual agreement between the U.S. Bureau of Reclamation (USBR) and DWR in accordance with Article 6(h) of the Coordinated Operation Agreement (COA), conditions remained "Balanced" with accounting throughout October. The end-of-month USBR COA balance was 116,519 cfs in favor of USBR.

There were three measurable earthquakes within the vicinity of the SWP in October; however, no facilities were found to meet inspection criteria.

During the month of October, there was no fish salvage reported.

Three fires occurred in October. One was a small vegetation fire in Oroville Fish Hatchery that was contained within an hour. There were no damages to the State property nor injuries reported.

**Table 1. Antelope Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

**October 2013**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Sep 30	4,996.58	17,839									
1	4,996.54	17,807	-32	20	0	0	0	3	23	7	
2	4,996.33	17,637	-170	20	0	0	0	3	23	-63	
3	4,996.28	17,597	-40	20	0	0	0	3	23	3	
4	4,996.23	17,556	-41	20	0	0	0	2	22	1	
5	4,996.17	17,508	-48	20	0	0	0	2	22	-2	
6	4,996.14	17,484	-24	20	0	0	0	2	22	10	
7	4,996.09	17,444	-40	20	0	0	0	2	22	2	
8	4,996.05	17,412	-32	20	0	0	0	2	22	6	
9	4,996.02	17,388	-24	5	0	0	0	2	7	-5	
10	4,996.01	17,380	-8	5	0	0	0	2	7	3	
11	4,996.01	17,380	0	5	0	0	0	2	7	7	
12	4,996.00	17,372	-8	5	0	0	0	2	7	3	
13	4,996.00	17,372	0	5	0	0	0	2	7	7	
14	4,996.00	17,372	0	5	0	0	0	2	7	7	
15	4,995.99	17,364	-8	5	0	0	0	2	7	3	
16	4,995.99	17,364	0	5	0	0	0	2	7	7	
17	4,995.97	17,348	-16	5	0	0	0	2	7	-1	
18	4,995.96	17,340	-8	5	0	0	0	2	7	3	
19	4,995.95	17,332	-8	5	0	0	0	2	7	3	
20	4,995.95	17,332	0	5	0	0	0	2	7	7	
21	4,995.94	17,324	-8	5	0	0	0	2	7	3	
22	4,995.93	17,316	-8	5	0	0	0	2	7	3	
23	4,995.92	17,308	-8	5	0	0	0	2	7	3	
24	4,995.91	17,300	-8	5	0	0	0	2	7	3	
25	4,995.91	17,300	0	5	0	0	0	2	7	7	
26	4,995.89	17,284	-16	5	0	0	0	2	7	-1	
27	4,995.89	17,284	0	5	0	0	0	2	7	7	
28	4,995.92	17,308	24	5	0	0	0	2	7	19	
29	4,995.95	17,332	24	5	0	0	0	2	7	19	
30	4,995.97	17,348	16	5	0	0	0	2	7	15	
31	4,995.97	17,348	0	5	0	0	0	2	7	7	
Total cfs-days				275	0	0	0	65	340	92	
Total ac-ft				-491	545	0	0	128	673	182	

**Table 2. Frenchman Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

**October 2013**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	1/ Water Right	Water Supply Contract					
Sep 30	5,566.97	28,135									
1	5,566.96	28,125	-10	2	3	0	0	3	8	3	
2	5,566.95	28,115	-10	2	3	0	0	3	8	3	
3	5,566.93	28,094	-21	2	3	0	0	3	8	-3	
4	5,566.85	28,012	-82	2	3	0	0	3	8	-33	
5	5,566.85	28,012	0	2	3	0	0	3	8	8	
6	5,566.83	27,991	-21	2	3	0	0	3	8	-3	
7	5,566.80	27,960	-31	2	3	0	0	3	8	-8	
8	5,566.79	27,950	-10	2	2	0	0	3	7	2	
9	5,566.78	27,940	-10	2	2	0	0	3	7	2	
10	5,566.75	27,909	-31	2	2	0	0	3	7	-9	
11	5,566.72	27,878	-31	2	2	0	0	3	7	-9	
12	5,566.71	27,868	-10	2	2	0	0	3	7	2	
13	5,566.70	27,858	-10	2	2	0	0	3	7	2	
14	5,566.69	27,847	-11	2	2	0	0	3	7	1	
15	5,566.68	27,837	-10	2	2	0	0	3	7	2	
16	5,566.67	27,827	-10	2	2	0	0	3	7	2	
17	5,566.65	27,806	-21	2	2	0	0	3	7	-4	
18	5,566.64	27,796	-10	2	2	0	0	3	7	2	
19	5,566.62	27,776	-20	2	2	0	0	3	7	-3	
20	5,566.58	27,735	-41	2	2	0	0	3	7	-14	
21	5,566.57	27,725	-10	2	2	0	0	3	7	2	
22	5,566.55	27,704	-21	1	7	0	0	2	10	-1	
23	5,566.52	27,674	-30	1	7	0	0	2	10	-5	
24	5,566.50	27,659	-15	1	7	0	0	2	10	2	
25	5,566.47	27,623	-36	1	7	0	0	2	10	-8	
26	5,566.46	27,612	-11	1	7	0	0	2	10	4	
27	5,566.41	27,561	-51	1	7	0	0	2	10	-16	
28	566.41	27,561	0	2	1	0	0	2	5	5	
29	5,566.42	27,572	11	2	1	0	0	2	5	11	
30	5,566.43	27,581	9	2	1	0	0	2	5	10	
31	5,566.42	27,572	-9	2	1	0	0	2	5	0	
Total cfs-days				56	95	0	0	144	295	11	
Total ac-ft				-563	111	188	0	286	585	22	

1/ Last Chance Creek Water District.

**Table 3. Lake Davis**

Daily Operation

(in acre-feet except as noted)

Capacity: 84,371 ac-ft

**October 2013**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Right 1/	Water Supply Contract 2/					
Sep 30	5,767.87	58,277									
1	5,767.80	58,048	-229	7	2	2	0	9	20	-96	
2	5,767.66	57,589	-459	7	2	1	0	9	20	-212	
3	5,767.62	57,459	-130	8	2	1	0	9	20	-46	
4	5,767.58	57,328	-131	8	2	1	0	9	20	-46	
5	5,767.58	57,328	0	7	2	2	0	9	20	20	
6	5,767.56	57,263	-65	7	2	2	0	9	20	-13	
7	5,767.54	57,198	-65	8	2	1	0	9	20	-13	
8	5,767.52	57,133	-65	7	2	2	0	9	20	-13	
9	5,767.50	57,068	-65	8	2	1	0	9	20	-13	
10	5,767.48	57,003	-65	8	2	1	0	9	20	-13	
11	5,767.46	56,938	-65	8	2	1	0	9	20	-13	
12	5,767.44	56,874	-64	8	2	1	0	9	20	-13	
13	5,767.44	56,874	0	8	2	1	0	9	20	20	
14	5,767.43	56,841	-33	8	2	1	0	8	19	2	
15	5,767.42	56,809	-32	9	2	0	0	8	19	3	
16	5,767.40	56,744	-65	9	2	0	0	8	19	-14	
17	5,767.39	56,712	-32	9	2	0	0	8	19	3	
18	5,767.37	56,647	-65	9	2	0	0	8	19	-14	
19	5,767.36	56,615	-32	9	2	0	0	8	19	3	
20	5,767.34	56,550	-65	9	2	0	0	8	19	-14	
21	5,767.33	56,518	-32	9	2	0	0	8	19	3	
22	5,767.32	56,485	-33	9	2	0	0	8	19	2	
23	5,767.31	56,453	-32	9	2	0	0	8	19	3	
24	5,767.27	56,324	-129	9	2	0	0	8	19	-46	
25	5,767.27	56,324	0	9	2	0	0	8	19	19	
26	5,767.26	56,292	-32	9	2	0	0	8	19	3	
27	5,767.24	56,227	-65	9	2	0	0	8	19	-14	
28	5,767.24	56,227	0	9	2	0	0	8	19	19	
29	5,767.22	56,163	-64	9	2	0	0	8	19	-14	
30	5,767.22	56,163	0	9	2	0	0	8	19	19	
31	5,767.20	56,099	-64	9	2	0	0	8	19	-14	
Total cfs-days				259	60	16	0	816	1,151	53	
Total ac-ft				-2,178	513	119	33	0	1,619	2,284	
										106	

1/ Includes unclassified non-project diversions to local agencies (Valberti and Romelli).

2/ Includes Plumas County and Grizzly Ranch.

**Table 4. Lake Oroville**

Daily Operation  
(in acre-feet except as noted)  
Capacity: 3,537,580 ac-ft

**October 2013**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow							Inflow		
				Hyatt Powerplant Generation 1/	Palermo Canal 2/	Lime Saddle Marina	Butte County Del Oro	Evaporation 3/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 4/	
Sep 30	745.21	1,633,290											
1	744.98	1,631,186	-2,104	4,245	16	0	0	86	0	4,347	0	2,243	
2	744.55	1,627,256	-3,930	4,948	16	0	0	118	0	5,082	0	1,152	
3	744.14	1,623,516	-3,740	4,315	16	0	0	144	0	4,475	0	735	
4	743.86	1,620,965	-2,551	4,451	16	0	0	248	0	4,715	0	2,164	
5	743.46	1,617,326	-3,639	4,447	16	0	0	170	0	4,633	0	994	
6	743.14	1,614,419	-2,907	4,282	16	0	0	157	0	4,455	0	1,548	
7	743.13	1,614,328	-91	4,414	16	0	0	435	0	4,865	0	4,774	
8	742.48	1,608,435	-5,893	4,483	16	0	0	188	0	4,687	0	-1,206	
9	742.35	1,607,258	-1,177	4,500	16	0	0	136	0	4,652	0	3,475	
10	742.34	1,607,167	-91	4,413	16	0	0	91	0	4,520	0	4,429	
11	742.52	1,608,797	1,630	3,737	16	0	0	175	0	3,928	0	5,558	
12	742.61	1,609,612	815	3,731	16	0	0	117	0	3,864	0	4,679	
13	742.78	1,611,153	1,541	3,674	16	0	0	117	0	3,807	0	5,348	
14	742.47	1,608,344	-2,809	3,728	13	0	0	240	0	3,981	0	1,172	
15	742.20	1,605,900	-2,444	3,710	11	0	0	149	0	3,870	0	1,426	
16	742.00	1,604,092	-1,808	4,004	12	0	0	272	0	4,288	0	2,480	
17	741.67	1,601,111	-2,981	4,054	11	0	0	188	0	4,253	0	1,272	
18	740.90	1,594,172	-6,939	8,476	12	0	0	142	0	8,630	0	1,691	
19	739.97	1,585,818	-8,354	9,115	12	0	0	161	0	9,288	0	934	
20	739.11	1,578,121	-7,697	8,985	12	0	0	135	0	9,132	0	1,435	
21	738.53	1,572,944	-5,177	9,544	8	0	0	134	0	9,686	0	4,509	
22	738.01	1,568,313	-4,631	9,565	6	0	0	128	0	9,699	0	5,068	
23	737.29	1,561,917	-6,396	9,493	6	0	0	172	0	9,671	0	3,275	
24	736.66	1,556,336	-5,581	9,573	6	0	0	152	0	9,731	0	4,150	
25	735.97	1,550,239	-6,097	9,595	6	0	0	89	0	9,690	0	3,593	
26	735.62	1,547,152	-3,087	9,663	6	0	0	114	0	9,783	0	6,696	
27	735.19	1,543,367	-3,785	9,139	6	0	0	113	0	9,258	0	5,473	
28	734.44	1,536,779	-6,588	9,107	6	0	0	75	0	9,188	0	2,600	
29	734.70	1,539,060	2,281	2,118	6	0	0	44	0	2,168	0	4,449	
30	734.15	1,534,237	-4,823	4,921	6	0	0	113	0	5,040	0	217	
31	733.48	1,528,375	-5,862	6,870	6	0	19	63	0	6,958	0	1,096	
Total				-104,915	187,300	359	0	19	4,666	0	192,344	0	87,429

1/ Includes bypass flows

2/ South Feather Water and Power Agency

3/ Evaporation will be zero for days when there is precipitation or heavy overcast.

4/ Does not include pumpback.

**Table 5. Thermalito Forebay  
Including Diversion Pool and Power Canal**

Daily Operation (in acre-feet except as noted)											October 2013
Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County Cal Water	Thermalito Water and Sewer	Releases To River 4/	Hyatt Powerplant Pumpback	
Sep 30	23,788										
1	24,201	413	4,245	8	0	2,005	1	7	2,079	0	252
2	23,923	-278	4,948	0	0	3,462	1	7	2,035	0	279
3	23,343	-580	4,315	0	0	3,120	1	7	2,057	0	290
4	23,558	215	4,451	0	0	2,501	1	7	2,049	0	322
5	23,752	194	4,447	0	0	2,501	1	7	2,057	0	313
6	23,777	25	4,282	0	0	2,501	1	7	2,045	0	297
7	23,948	171	4,414	0	0	2,501	1	7	2,021	0	287
8	24,166	218	4,483	0	0	2,501	1	7	2,049	0	293
9	24,166	0	4,500	0	0	2,501	1	7	2,059	0	68
10	24,532	366	4,413	0	0	2,501	1	7	2,073	0	535
11	24,595	63	3,737	0	0	1,964	1	7	2,061	0	359
12	24,046	-549	3,731	0	0	2,811	1	7	2,069	0	608
13	23,972	-74	3,674	0	0	2,088	1	7	2,061	0	409
14	24,325	353	3,728	0	0	1,813	1	7	2,069	0	515
15	24,901	576	3,710	0	0	1,572	1	7	2,073	0	519
16	24,108	-793	4,004	0	0	3,224	1	7	2,079	0	514
17	24,538	430	4,054	0	0	2,005	1	6	2,077	0	465
18	24,591	53	8,476	0	0	6,964	1	6	2,095	0	643
19	24,707	116	9,115	0	0	7,543	1	6	2,120	0	671
20	24,120	-587	8,985	0	0	8,306	1	6	2,116	0	857
21	24,027	-93	9,544	0	0	7,888	1	6	2,112	0	370
22	24,396	369	9,565	0	0	7,646	1	6	2,122	0	579
23	24,362	-34	9,493	0	0	7,925	1	6	2,126	0	531
24	24,403	41	9,573	0	0	7,906	1	6	2,130	0	511
25	24,403	0	9,595	0	0	7,906	1	6	2,132	0	450
26	24,446	43	9,663	0	0	7,916	1	6	2,126	0	429
27	24,515	69	9,139	0	0	7,785	0	6	2,128	0	849
28	24,446	-69	9,107	0	0	7,878	0	6	2,140	0	848
29	24,832	386	2,118	0	0	22	0	6	2,136	0	432
30	24,102	-730	4,921	0	0	4,245	0	6	2,073	0	673
31	23,569	-533	6,870	0	0	6,028	0	6	2,075	0	706
Total		-219	187,300	8	0	137,529	26	202	64,644	0	14,874

1/ Sum of Thermalito Forebay and Diversion Pool.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

3/ Includes Bypass flows at Thermalito.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

**Table 6. Thermalito Afterbay**

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

**October 2013**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow					Losses (-) and Gains (+)	Total Releases to River 2/	
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback			
Sep 30	133.84	46,090											
1	133.68	45,463	-627	2,005	732	4	375	270	83	0	-1,168	2,162	
2	133.82	46,011	548	3,462	728	4	377	276	87	0	-1,442	2,122	
3	133.94	46,484	473	3,120	724	4	405	307	87	0	-1,120	2,144	
4	133.88	46,247	-237	2,501	757	4	417	349	87	0	-1,124	2,136	
5	133.85	46,129	-118	2,501	767	4	415	349	87	0	-997	2,144	
6	133.82	46,011	-118	2,501	769	4	415	347	85	0	-999	2,130	
7	133.72	45,619	-392	2,501	771	4	415	349	83	0	-1,271	2,104	
8	133.60	45,151	-468	2,501	771	4	419	389	85	0	-1,301	2,134	
9	133.60	45,151	0	2,501	821	4	417	438	87	0	-734	2,146	
10	133.27	43,874	-1,277	2,501	974	4	417	456	87	0	-1,840	2,160	
11	132.83	42,198	-1,676	1,964	1,095	4	417	454	91	0	-1,579	2,152	
12	132.47	40,850	-1,348	2,811	1,099	4	415	452	89	0	-2,100	2,158	
13	132.02	39,193	-1,657	2,088	1,095	4	417	452	87	0	-1,690	2,148	
14	131.37	36,856	-2,337	1,813	1,196	4	415	468	85	0	-1,982	2,154	
15	130.50	33,833	-3,023	1,572	1,337	4	417	484	85	0	-2,268	2,158	
16	130.09	32,451	-1,382	3,224	1,376	4	163	482	87	0	-2,494	2,166	
17	129.15	29,385	-3,066	2,005	1,547	4	0	508	87	0	-2,925	2,164	
18	129.62	30,900	1,515	6,964	1,648	4	0	545	87	0	-3,165	2,182	
19	130.23	32,920	2,020	7,543	1,660	4	0	561	87	0	-3,211	2,207	
20	131.01	35,590	2,670	8,306	1,666	4	0	565	87	0	-3,314	2,203	
21	131.57	37,568	1,978	7,888	1,686	1	0	187	87	0	-3,949	2,199	
22	132.05	39,302	1,734	7,646	1,634	0	0	0	87	0	-4,191	2,209	
23	132.58	41,260	1,958	7,925	1,670	0	0	0	87	0	-4,210	2,213	
24	133.10	43,223	1,963	7,906	1,676	0	0	0	87	0	-4,180	2,217	
25	133.62	45,228	2,005	7,906	1,696	0	0	0	87	0	-4,118	2,219	
26	134.16	47,353	2,125	7,916	1,718	0	0	0	87	0	-3,986	2,213	
27	134.67	49,396	2,043	7,785	1,712	0	0	0	83	0	-3,947	2,211	
28	135.29	51,933	2,537	7,878	1,710	0	0	0	83	0	-3,548	2,223	
29	134.00	46,721	-5,212	22	1,704	0	0	0	85	0	-3,445	2,221	
30	133.70	45,541	-1,180	4,245	1,692	0	0	0	87	0	-3,646	2,160	
31	133.95	46,523	982	6,028	1,569	0	0	0	87	0	-3,390	2,162	
<b>Total</b>				<b>433</b>	<b>137,529</b>	<b>40,000</b>	<b>81</b>	<b>6,316</b>	<b>8,688</b>	<b>2,677</b>	<b>0</b>	<b>-79,334</b>	<b>67,321</b>

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

**Table 7. Oroville-Thermalito Complex**

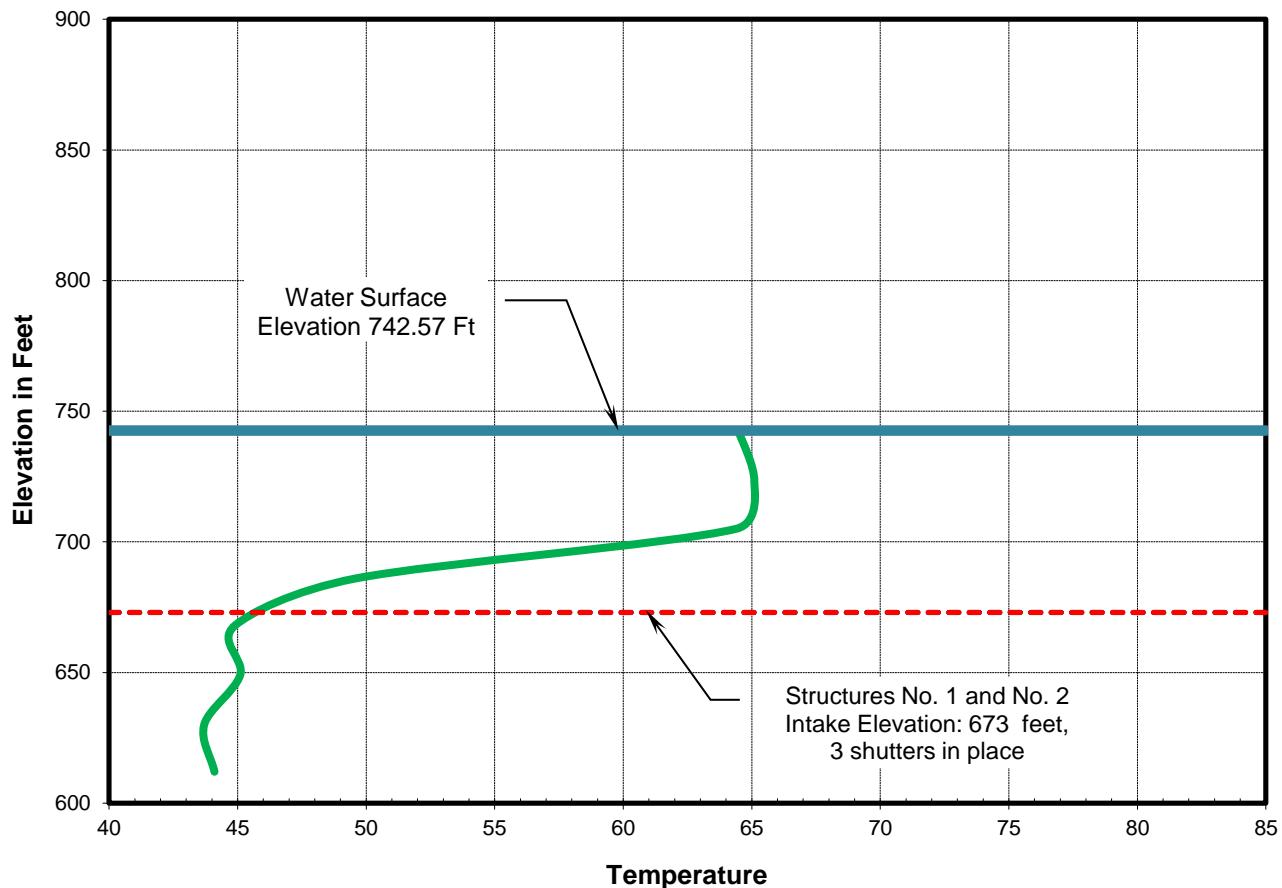
Water Temperature Data

(in degrees Fahrenheit)

**October 2013**

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	61.5	50.8
2	61.5	50.8
3	61.5	50.8
4	61.5	50.8
5	61.5	50.8
6	61.5	50.8
7	61.5	50.8
8	61.5	50.8
9	61.5	50.8
10	61.5	50.8
11	61.5	50.8
12	61.5	50.8
13	61.5	50.8
14	61.5	50.8
15	61.5	50.8
16	61.5	50.8
17	61.5	50.8
18	61.5	50.8
19	61.5	50.8
20	61.5	50.8
21	61.5	50.8
22	61.5	50.8
23	61.5	50.8
24	61.5	50.8
25	61.5	50.8
26	61.5	50.8
27	61.5	50.8
28	61.5	50.8
29	61.5	50.8
30	61.5	50.8
31	61.5	50.8

**Lake Oroville Temperature Profile  
on October 15, 2013**



Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

**Table 8. North Bay Aqueduct**  
Delta Field Division, Monthly Deliveries

October 2013

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Table A			Permit	Pool A	Article 56	Settlement Water			
	No.	Structure										
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	5,933							
		Travis Surge Tank	8.78									
			8.80	Solano County Water Agency Travis AFB	161		161					
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	410	410						
				Solano County Water Agency Fairfield / Vacaville 42"	1,675	1,430		245				
			17.00	Solano County Water Agency Central Solano	Stub							
		Cordelia Forebay	21.23		0							
		Cordelia Pumping Plant & Cordelia Spillway	21.30		3,588							
		Napa Pipeline	21.33	Solano County Water Agency Vallejo	1,424		1424					
				Solano County Water Agency Benicia	1,141			1,141				
3B	2	Cordelia Surge Tank	23.33		0							
		Creston Surge Tank Connection	25.65		0							
			26.95	Napa County Flood Control & WCD American Canyon 2	2			2				
			27.27	Napa County Flood Control & WCD American Canyon 3	0							
		Napa Terminal Tank	27.58	City of Napa	743	532		211				
			27.60	Napa County Flood Control & WCD American Canyon 1	278			278				

**Table 9. Delta Field Division Plant Data**

**October 2013**

(in acre-feet)

Date	North Bay Aqueduct		California Aqueduct				South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		DMC/CA Intertie (DCI)		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP	Pumped	Released		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	176	95	2,876	2,876	0	0	476	0	0	169
2	160	82	3,811	3,811	0	0	421	0	0	130
3	167	91	2,880	2,880	0	0	460	0	0	130
4	180	103	4,172	4,172	0	0	464	0	0	130
5	158	81	2,890	2,890	0	0	499	0	0	130
6	180	99	2,880	2,880	0	0	499	0	0	130
7	181	102	2,880	2,880	0	0	412	0	0	130
8	200	113	1,965	1,965	0	0	412	0	0	120
9	190	104	1,983	1,983	0	0	438	0	0	120
10	197	107	2,165	2,165	0	0	422	0	0	117
11	155	68	2,151	2,151	0	0	448	0	0	94
12	162	78	2,006	2,006	0	0	437	0	0	104
13	167	81	1,884	1,884	0	0	354	0	0	160
14	182	100	1,884	1,884	0	0	154	0	0	177
15	195	112	2,020	2,020	0	0	475	0	0	115
16	206	119	2,002	2,002	0	0	499	0	0	73
17	217	126	1,884	1,884	0	0	411	0	0	56
18	243	147	1,883	1,883	0	0	492	0	0	55
19	229	147	1,619	1,619	0	0	499	0	0	55
20	243	155	1,605	1,605	0	0	499	0	0	56
21	237	149	1,661	1,661	0	0	499	0	0	56
22	233	141	1,399	1,399	0	0	499	0	0	56
23	220	132	1,465	1,465	0	0	430	0	0	49
24	205	122	718	718	0	0	411	0	0	23
25	212	137	1,310	1,310	0	0	451	0	0	0
26	210	146	1,310	1,310	0	0	499	0	0	0
27	199	135	1,856	1,856	0	0	499	0	0	0
28	200	126	1,875	1,875	0	0	496	0	0	0
29	90	107	1,597	1,597	0	0	500	0	0	0
30	177	126	3,758	3,758	0	0	500	0	0	0
31	162	157	6,347	6,347	0	0	500	0	0	0
Total	5,933	3,588	70,736	70,736	0	0	14,055	0	0	2,435

**Table 10. Clifton Court Forebay**

Daily Operation of Gates

**October 2013**

Date	Time												Amount of inflow in Acre-Feet
	Opened	Closed											
1	00:01	02:30	04:45	08:45									2,955
2	07:00	11:30	14:30	18:50									3,964
3	07:00	12:00	15:15	19:40									2,962
4	14:00	16:45	19:30	23:00									3,957
5	04:00	09:00											2,955
6	05:00	08:30											2,958
7	00:01	02:45	06:00	07:18	08:32	09:35							2,954
8	00:01	03:15	06:15	09:15									1,977
9	00:30	04:00											1,973
10	00:01	04:00											1,975
11	00:01	02:40											1,967
12	00:45	03:30											1,963
13	02:00	05:00											1,970
14	02:00	06:45											1,970
15	04:30	08:00											1,968
16	06:15	11:00											1,923
17	02:35	10:30											1,974
18	03:30	08:45											1,970
19	05:00	11:00											1,576
20	00:01	01:45	04:45	08:00									1,584
21	00:01	03:00											1,573
22	00:01	03:30											1,586
23	00:01	03:30											1,566
24	00:01	03:00											1,585
25	08:30	11:55											1,581
26	09:30	12:40											1,575
27	04:00	07:30	10:30	13:05									1,584
28	01:00	04:05											1,584
29	02:15	05:00											1,965
30	00:01	01:00	03:15	09:00	12:00	15:30							3,951
31	01:00	07:50	16:30	18:40									5,932
Total inflow for the month in AF:													71,977

**Table 11. Governor Edmund G. Brown California Aqueduct**  
 Delta Field Division, Monthly Deliveries

(In acre-feet)						October 2013						
Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries							
	Beginning and Ending				Table A USBR Local Loan Water Article 56							
	No.	Structure	Mile									
1A			1.83	Byron-Bethany I.D.	1,632			1632				
1	1	Banks Pumping Plant	3.32		70,736							
		South Bay Pumping Plant	4.49	Bethany Reservoir (Into the South Bay Aqueduct)	14,055							
		Check No. 1	5.95									
			8.08	Alameda Co. Zone 7 WA Mountain House Golf Course	0							
2A	2	Delta Mendota Canal - California Aqueduct Intertie (DCI)	9.1	Inflow to California Aqueduct from Delta Mendota Canal	0							
				Outflow to Delta Mendota Canal from California Aqueduct	0							
	2	Check No. 2	12.01									
	3		12.47	Musco Olive	74		74					
		Check No. 3	18.29									
	4		22.16	Tracy Golf & Country Club	0							
		Check No. 4	23.99									
	5	Check No. 5	29.73									
	6	Check No. 6	34.24									
	7		35.22	Turlock Fruit Company Inflow	0							
		Check No. 7	39.91									
2B	8		42.46	Oak Flat Water District-A	33		33					
			42.9	Western Hills WD	95		95					
			43.81	Oak Flat Water District-B	0							
			44.64	Oak Flat Water District-C	42		42					
		Check No. 8	45.97									
	9		46.18	Oak Flat Water District-D	58		58					
				Oak Flat Totals:	133		133	0	0	0		
	10	Check No. 9	51.3									
	11	Check No. 10	56.86									
	12	Check No. 11	61.4									
			66.14	Veteran's Cemetery	21		21					
		Check No. 12	66.71		58,346							

**Table 12. South Bay Aqueduct**  
Delta Field Division, Monthly Deliveries

October 2013

(In acre-feet)				Turnout	Total Diversions	Deliveries						
Reach No.	Operating Pool		Structure	Mile			Table A	Article 56	Article 14B	Local	Rec.	
	Beginning and Ending											
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	14,055							
			3.17	Granite - Vasco Rd. (Temp.)	0							
			3.18	Oakland Scavenger Zone 7	15							
		Check No. 1	3.91									
	2	Check No. 2	5.21									
			7.15	Zone 7 Altamont	9		9					
	3	Check No. 3	9.49	Zone 7 Patterson Storage Exchange	0							
				Zone 7 Patterson Project Water	1,053				600	453		
4	4	Check No. 4	10.68									
	5	Check No. 5	12.29									
	6		13.55	Zone 7 Wente #1	116		116					
			14.16	Zone 7 Wente #2	60		60					
			14.31	Ising Project Water	27		27					
		Check No. 6	14.65									
	7		14.78	Zone 7 Arroyo Mocho Storage Exchange	647					647		
		Check No. 7	16.38									
	8	Del Valle Branch Pipeline Junction	16.57	Zone 7 Wente #3	0							
				Zone 7 Wente #4	24		24					
				Zone 7 Norman Nursery	1		1					
				Zone 7 Concannon Project Water	22		22					
			18.63	Pumped into Lake Del Valle	0							
				Pumped into South Bay Aqueduct	0							
				Gravity into South Bay Aqueduct	2,435							
5	8	Deliveries through Del Valle Branch Pipeline		Arroyo Valle #1 & #2 Storage Exchange:	220					220		
				Project Water	340							
				Storage Released	0							
				Inflow Release	0							
				East Bay Regional Park Dist.								
6			19.20	Del Valle Recreation	10							
				Zone 7 Wente #5	75		75				10	
				So. Livermore Project	2,468				2,253			
				So. Livermore Inflow Released	0						1/ 215	
7		La Costa Tunnel	22.50	So. Livermore Stored Exchanged	0							
				Zone 7 - Kalthrof Detjens	37		37					
				ACWD Vallecitos Project Water	0							
8		Mission Tunnel	25.97	City of San Francisco								
				San Antonio	0							
				ACWD - Bayside 1 & 2 Project Water	2,474		685	1,789				
9		Santa Clara Pipeline	28.97	Storage Released	0							
				Storage Exchange:	0							
				S.C.V.W.D. Meter	8,892						2/ 8,892	

1/ Dry Year Purchase water.

2/ This includes 7,637 AF of Turnback multiple pool water and 1,255 AF of Semitropic waterbank recovery water.

Table 13. Lake Del Valle Daily Operation (in acre-feet except as noted)											October 2013
Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct 2/	Recreation Deliveries 3/	Evaporation	Total Outflow	
Sep 30	692.10	32,668									
1	691.83	32,500	-168	11	0	0	169	1	9	179	0.00
2	691.55	32,328	-173	-34	0	0	130	1	8	139	0.00
3	691.30	32,174	-154	-15	0	0	130	1	8	139	0.00
4	691.24	32,137	-37	107	0	0	130	1	13	144	0.00
5	691.05	32,020	-117	26	0	0	130	1	12	143	0.00
6	690.84	31,892	-128	14	0	0	130	1	12	143	0.00
7	690.68	31,794	-98	46	0	0	130	1	13	144	0.00
8	690.53	31,703	-91	40	0	0	120	1	11	132	0.00
9	690.18	31,490	-212	-82	0	0	120	1	10	131	0.00
10	689.80	31,261	-229	-105	0	0	117	1	6	124	0.00
11	689.78	31,249	-12	89	0	0	94	0	6	100	0.00
12	689.40	31,021	-228	-116	0	0	104	0	8	112	0.00
13	689.20	30,901	-120	48	0	0	160	0	7	167	0.00
14	688.90	30,722	-179	7	0	0	177	0	9	186	0.00
15	688.51	30,491	-231	-107	0	0	115	0	9	124	0.00
16	688.35	30,396	-95	-12	0	0	73	0	10	83	0.00
17	688.25	30,337	-59	8	0	0	56	0	11	67	0.00
18	688.20	30,308	-29	35	0	0	55	0	10	65	0.00
19	688.15	30,278	-29	35	0	0	55	0	10	65	0.00
20	688.06	30,226	-53	13	0	0	56	0	10	66	0.00
21	687.80	30,073	-152	-86	0	0	56	0	10	66	0.00
22	687.72	30,026	-47	16	0	0	56	0	6	62	0.00
23	687.62	29,968	-58	-2	0	0	49	0	8	57	0.00
24	687.55	29,927	-41	-11	0	0	23	0	7	30	0.00
25	687.50	29,898	-29	-27	0	0	0	0	3	3	0.00
26	687.48	29,886	-12	-6	0	0	0	0	6	6	0.00
27	687.47	29,880	-6	1	0	0	0	0	6	6	0.00
28	687.46	29,875	-6	2	0	0	0	0	8	8	0.00
29	687.45	29,869	-6	0	0	0	0	0	6	6	0.00
30	687.44	29,863	-6	-1	0	0	0	0	5	5	0.00
31	687.42	29,851	-12	-9	0	0	0	0	3	3	0.00
Total			-2,817	-114	0	0	2,435	10	258	2,703	0.00

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

3/ To East Bay Regional Park District.

2/ Project water released to South Bay Aqueduct through Del Valle Pumping Plant.

NR=No Records

**Table 14. Consolidated State-Federal O'Neill Forebay**

Daily Operations  
October 2013

United States  
Department of the Interior  
Bureau of Reclamation  
Central Valley Project

State of California  
The Resources Agency  
Department of Water Resources  
State Water Project

Capacity 56,430 ac-ft

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliv-eries 2/		
Sep 30	223.58	52,598											
1	223.36	52,009	-589	0	1,044	0	1,298	0	0	2,606	12	-21	
2	222.80	50,513	-1,496	0	731	0	1,507	0	0	2,983	12	3	
3	221.12	46,075	-4,438	0	332	0	1,228	0	0	3,668	8	-121	
4	221.78	47,809	1,734	0	217	2,248	1,716	0	0	3,101	8	-198	
5	223.01	51,073	3,264	0	336	2,840	1,342	0	0	2,814	8	-50	
6	221.78	47,809	-3,264	0	575	0	1,126	0	0	3,419	8	80	
7	222.38	49,394	1,585	0	616	1,070	1,223	0	0	2,014	8	-88	
8	224.10	53,996	4,602	0	603	3,249	995	0	0	2,543	8	24	
9	222.97	50,966	-3,030	0	520	0	401	0	750	1,891	8	200	
10	222.11	48,677	-2,289	0	583	0	989	0	368	2,598	5	245	
11	221.92	48,176	-501	0	674	0	795	0	0	1,759	4	41	
12	223.54	52,491	4,315	0	767	4,192	921	0	0	3,760	4	59	
13	221.08	45,970	-6,521	0	937	0	986	0	1,475	4,074	4	342	
14	222.33	49,261	3,291	0	1,138	2,128	881	0	0	2,529	4	45	
15	224.54	55,184	5,923	0	1,203	2,970	724	0	0	2,051	4	144	
16	224.44	54,914	-270	0	1,134	0	859	0	0	2,215	4	90	
17	223.94	53,565	-1,349	0	1,099	863	772	0	1,451	2,042	8	87	
18	223.39	52,089	-1,476	0	1,165	987	815	0	1,505	2,275	8	77	
19	223.54	52,491	402	0	1,311	2,764	698	0	1,113	3,680	8	231	
20	222.99	51,019	-1,472	0	1,351	2,042	468	0	1,503	3,194	8	102	
21	223.62	52,705	1,686	0	1,280	2,561	606	0	1,500	2,300	8	211	
22	223.94	53,565	860	0	1,294	2,555	490	0	1,502	2,488	8	93	
23	223.80	53,189	-376	0	813	2,553	631	0	1,387	3,090	8	298	
24	222.13	48,730	-4,459	0	329	0	429	0	758	2,352	6	110	
25	222.80	50,513	1,783	0	416	2,743	652	0	253	2,935	6	282	
26	222.67	50,166	-347	0	492	2,554	588	0	1,005	2,988	6	190	
27	222.15	48,783	-1,383	0	456	1,812	714	0	743	3,124	6	194	
28	223.50	52,384	3,601	0	114	3,075	845	26	0	2,210	6	23	
29	223.75	53,054	670	0	0	1,907	642	227	0	2,114	6	136	
30	223.86	53,350	296	0	0	1,323	1,229	211	0	2,262	6	76	
31	224.32	54,589	1,239	0	583	0	2,843	44	1,412	1,580	17	252	
Total				1,991	0	22,113	46,436	29,413	508	16,725	82,659	224	3,157
Mean cfs					0	713	1,498	949	16	540	2,666	7	102
Acre-feet				1,991	0	43,861	92,102	58,346	1,009	33,175	163,961	444	6,270

1/ Pump-in located at Mile 79.67R.

2/ Includes 163 AF delivered to DFG at O'Neill Forebay, 1 AF to Parks & Rec., and 280 AF to San Luis Water District.

**Table 15. Consolidated State-Federal San Luis Reservoir**

Daily Operations

October 2013

United States  
Department of the Interior  
Bureau of Reclamation  
Central Valley Project

State of California  
The Resources Agency  
Department of Water Resources  
State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)	Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.	
Sep 30	397.66	504,424						
1	397.61	504,032	-392	0	0	137	0	-61
2	397.55	503,562	-470	0	0	108	0	-129
3	397.49	503,091	-471	0	0	127	0	-110
4	396.88	498,319	-4,772	0	2,248	154	0	-4
5	396.12	492,397	-5,922	0	2,840	139	0	-7
6	396.06	491,931	-466	0	0	133	0	-102
7	395.75	489,524	-2,407	0	1,070	138	0	-6
8	394.90	482,946	-6,578	0	3,249	127	0	60
9	394.94	483,255	309	750	0	128	0	-466
10	394.95	483,332	77	368	0	138	0	-191
11	394.96	483,410	78	0	0	144	0	183
12	393.87	475,020	-8,390	0	4,192	134	0	96
13	394.04	476,325	1,305	1,475	0	111	0	-706
14	393.60	472,951	-3,374	0	2,128	118	0	545
15	392.82	466,990	-5,961	0	2,970	115	0	80
16	392.73	466,304	-686	0	0	131	0	-215
17	392.77	466,609	305	1,451	863	108	0	-326
18	392.81	466,914	305	1,505	987	107	0	-257
19	392.45	464,173	-2,741	1,113	2,764	86	0	355
20	392.18	462,121	-2,052	1,503	2,042	82	0	-414
21	391.86	459,693	-2,428	1,500	2,561	96	0	-67
22	391.51	457,043	-2,650	1,502	2,555	95	0	-188
23	391.28	455,305	-1,738	1,387	2,553	98	0	388
24	391.38	456,060	755	758	0	93	0	-284
25	390.73	451,158	-4,902	253	2,743	93	0	112
26	390.29	447,851	-3,307	1,005	2,554	96	0	-22
27	390.07	446,201	-1,650	743	1,812	86	0	323
28	389.16	439,398	-6,803	0	3,075	89	0	-266
29	388.63	435,454	-3,944	0	1,907	86	0	5
30	388.25	432,635	-2,819	0	1,323	110	0	12
31	388.40	433,747	1,112	1,412	0	127	0	-724
Total			-70,677	16,725	46,436	3,534	0	-2,386
Mean cfs				540	1,498	114	0	-77
Acre-feet			-70,677	33,175	92,102	7,007	0	-4,743

1/ Pacheco Tunnel, San Felipe Split; Santa Clara 6,888 AF, Casa De Fruta 0 AF, and San Benito 119 AF.

**Table 16. San Luis Field Division Plant Data**

October 2013							
(in acre-feet)							
Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant			San Felipe Project	
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	5,169	4,822	0	0	0	0	271
2	5,917	5,567	0	0	0	0	215
3	7,276	6,921	0	0	0	0	252
4	6,150	5,805	4,458	4,458	0	0	305
5	5,582	5,232	5,633	5,633	0	0	276
6	6,782	6,428	0	0	0	0	263
7	3,995	3,640	2,122	2,122	0	0	273
8	5,044	4,687	6,445	6,445	0	0	251
9	3,751	3,397			1,488	63	254
10	5,154	4,790	0	0	729	41	273
11	3,488	3,150	0	0	0	0	286
12	7,458	7,105	8,314	8,314	0	0	265
13	8,081	7,724	0	0	2,926	-1,404	221
14	5,016	4,670	4,220	4,220	0	0	234
15	4,069	3,714	5,891	5,891	0	0	228
16	4,394	4,045	0	0	0	0	260
17	4,051	3,709	1,712	1,712	2,878	-15	214
18	4,513	4,174	1,957	1,957	2,985	88	213
19	7,300	6,944	5,482	5,482	2,207	80	171
20	6,336	6,336	4,051	4,051	2,982	100	162
21	4,562	4,562	5,080	5,080	2,975	42	191
22	4,935	4,935	5,068	5,068	2,980	95	189
23	6,130	6,130	5,063	5,063	2,752	124	194
24	4,665	4,665	0	0	1,504	89	184
25	5,821	5,821	5,440	5,440	502	20	184
26	5,927	5,927	5,065	5,065	1,993	88	191
27	6,196	6,196	3,595	3,595	1,474	66	170
28	4,384	3,355	6,099	6,099	0	0	176
29	4,194	3,158	3,782	3,782	0	0	171
30	4,487	4,487	2,625	209	0	0	219
31	3,134	2,074	0	0	2,800	2,800	251
Total	163,961	154,170	92,102	89,686	33,175	2,277	7,007

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

**Table 17. Consolidated State-Federal Los Banos Reservoir**

Daily Operations

October 2013

United States  
Department of the Interior  
Bureau of Reclamation  
Central Valley Project

State of California  
The Resources Agency  
Department of Water Resources  
State Water Project

Capacity 34,560 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Sep 30	317.40	16,000					
1	317.38	15,992	-8	0	0	0	-8
2	317.36	15,984	-8	0	0	0	-8
3	317.32	15,967	-17	0	0	0	-17
4	317.32	15,967	0	0	0	0	0
5	317.32	15,967	0	0	0	0	0
6	317.32	15,967	0	0	0	0	0
7	317.31	15,963	-4	0	0	0	-4
8	317.30	15,959	-4	0	0	0	-4
9	317.30	15,959	0	0	0	0	0
10	317.29	15,955	-4	0	0	0	-4
11	317.20	15,918	-37	0	0	0	-37
12	317.20	15,918	0	0	0	0	0
13	317.17	15,905	-13	0	0	0	-13
14	317.16	15,901	-4	0	0	0	-4
15	317.16	15,901	0	0	0	0	0
16	317.14	15,893	-8	0	0	0	-8
17	317.12	15,885	-8	0	0	0	-8
18	317.11	15,880	-5	0	0	0	-5
19	317.10	15,876	-4	0	0	0	-4
20	317.10	15,876	0	0	0	0	0
21	317.08	15,868	-8	0	0	0	-8
22	317.07	15,864	-4	0	0	0	-4
23	317.13	15,889	25	13	0	0	-1
24	317.14	15,893	4	2	0	0	0
25	317.13	15,889	-4	0	0	0	-4
26	317.13	15,889	0	0	0	0	0
27	317.08	15,868	-21	0	0	0	-21
28	316.98	15,827	-41	0	0	0	-41
29	316.97	15,823	-4	0	0	0	-4
30	316.96	15,819	-4	0	0	0	-4
31	316.95	15,815	-4	0	0	0	-4
Total			-185	15	0	0	-215
Mean cfs				0	0	0	
Acre-feet			-185	30	0	0	-215

**Table 18. Consolidated State-Federal Little Panoche Reservoir**

Daily Operations

October 2013

United States  
Department of the Interior  
Bureau of Reclamation  
Central Valley Project

State of California  
The Resources Agency  
Department of Water Resources  
State Water Project

Capacity: 5,580 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Sep 30	602.40	815					
1	Not Observation						
2	Not Observation						
3	Not Observation						
4	602.40	815	0	0	0	0	0
5	Not Observation						
6	Not Observation						
7	Not Observation						
8	Not Observation						
9	Not Observation						
10	Not Observation						
11	Not Observation						
12	Not Observation						
13	599.90	679	-136	0	0	0	-136
14	Not Observation						
15	Not Observation						
16	Not Observation						
17	Not Observation						
18	Not Observation						
19	Not Observation						
20	Not Observation						
21	Not Observation						
22	Not Observation						
23	Not Observation						
24	Not Observation						
25	Not Observation						
26	Not Observation						
27	Not Observation						
28	Not Observation						
29	Not Observation						
30	Not Observation						
31	599.90	679	0	0	0	0	0
Total			-136	0	0	0	-136
Mean cfs				0	0	0	0
Acre-feet			-136	0	0	0	-136

**Table 19. Governor Edmund G. Brown California Aqueduct**

San Luis Field Division, Monthly Deliveries

**October 2013**

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending					USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure	Mile								
2B	12	Check No. 12	66.71		58,346						
3A		San Luis Reservoir		Department of Parks and Recreation							
				San Felipe Division Santa Clara Water District	6,888	6,888					
				Casa de Fruita Santa Clara Water District	0						
				San Felipe Division San Benito Water District	119	119					
				Reach 3A Subtotal:	7,007	7,007	0	0	0		
3	13	O'Neill Forebay	70.85	Department of Parks and Recreation	1			1	0		
				Cattle Program							
				Department of Fish & Game	163			90	73		
		70.91 Thru 85.08		San Luis Water District	280	280					
				(Floodwater Inflow)							
				Reach 3 Subtotal:	444	280	0	90	74		
		Dos Amigos Pumping Plant	86.73		163,961						
4		14	89.03	San Luis Water District	4,658	4,658					
			Thru 94.06								
			89.66	Pacheco Water District	387	387					
			89.67								
			89.68	Panoche Water District	33	33					
		15	89.70	City of Dos Palos	133	133					
			Check No. 14	95.06							
			98.15	San Luis Water District	427	427					
			Thru 104.20								
			96.15	Panoche Water District	1,115	1,115					
			Thru 102.64								
			102.64	(Floodwater Inflow)							
			102.64	Broadview Water District	0						
		105.22 Thru 108.64	105.22	Westlands Water District	1,867	1,867					
			Thru 108.64								
			Check No.15	108.50							
			Reach 4 Subtotal:	8,620	8,620	0	0	0	0		
			San Felipe Division Total:	7,007	7,007	0	0	0	0		
			Pacheco Water District Total:	387	387	0	0	0	0		
			Broadview Water District Total:	0	0	0	0	0	0		
			City of Dos Palos Total:	133	133	0	0	0	0		
			SLWD Reach 4 Subtotal:	5,085	5,085	0	0	0	0		
			Panoche Water District Total:	1,148	1,148	0	0	0	0		
			SLWD Total:	5,365	5,365	0	0	0	0		
			Westlands WD Reach 4 Subtotal:	1,867	1,867	0	0	0	0		

**Table 19. Governor Edmund G. Brown California Aqueduct**

San Luis Field Division, Monthly Deliveries (Continued)

October 2013

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Mile			USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure									
5	16		110.52	(Reverse flow, Kings River)	0						
				Westlands Water District	3,356	3,356					
				Thru Dept. of Fish and Game @ Lat. 4L	0						
				Dept. of Fish and Game @ Lat. 6L	0						
				Dept. of Fish and Game @ Lat. 7L	0						
		Check No. 16	122.07								
	17		124.18	Westlands Water District	1,078	1,078					
		Check No. 17	132.74								
	18		133.81	Westlands Water District	3,148	3,148					
		Pleasant Valley Pumping Plant	143.16	Westlands Water District	3,879	3,879					
			143.16	City of Coalinga	446	446					
		Check No. 18	143.23								
				Reach 5 Subtotal:	11,907	11,907	0	0	0		
6	19		145.26	GWF Energy	0						
				City of Huron	2	2					
				Kings County to Lemoore NAS Through WWD	242	242					
				Kings County through WWD 30L	0						
				Westlands Water District	1,746	1,746					
		Check No. 19	155.64								
				Reach 6 Subtotal:	1,990	1,990	0	0	0		
7	20		156.34	City of Huron	86	86					
				SWP Construction @ Lat. 24R	0						
			156.40	Westlands Water District	725	725					
		Check No. 20	163.69								
	21		164.69								
			164.79	City of Avenal	241	241					
			167.04	Westlands Water District	560	560					
			171.67								
		Check No. 21	172.40		132,742						
				Reach 7 Total:	1,612	1,612	0	0	0		
				2/ SWP Const. / GWF Energy	0	0	0	0	0		
				Westlands WD Total:	16,359	16,359	0	0	0		
				City of Coalinga Total:	446	446	0	0	0		
				City of Huron Total:	88	88	0	0	0		
				Kings County to Lemoore NAS Through WWD	242	242	0	0	0		
				City of Avenal Total:	241	241	0	0	0		
				Total San Luis Field Division Deliveries:	31,580	31,416	0	90	74		

1/ SWP water, from County of Kings to Westlands Water District, Table A.

2/ Includes GWF Energy water and DWR construction water 22R.

**Table 20. Consolidated State-Federal San Luis Canal 1/**

Daily Operations  
October 2013

United States  
Department of the Interior  
Bureau of Reclamation  
Central Valley Project

State of California  
The Resources Agency  
Department of Water Resources  
State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non- Project	Dos Amigos Pumping Plant	San Luis Water District Pools 14 & 15 2/	Panoche Water District Pools 14 & 15	Westlands Water District Pools 15 thru 21 3/	Flow Past Check 21	
Sep 30	28,434								
1	27,946	-488	0	2,606	103	25	368	2,110	-245
2	27,677	-269	0	2,983	103	25	367	2,415	-208
3	28,345	668	0	3,668	105	20	321	2,970	85
4	28,183	-162	0	3,101	105	20	321	2,511	-226
5	27,917	-266	0	2,814	105	20	321	2,278	-224
6	28,602	685	0	3,419	105	20	321	2,768	140
7	28,409	-193	0	2,014	105	20	321	1,631	-34
8	28,324	-85	0	2,543	105	20	321	2,058	-81
9	27,812	-512	0	1,891	105	20	321	1,531	-172
10	28,168	356	0	2,598	77	18	316	2,103	96
11	27,553	-615	0	1,759	77	18	316	1,424	-234
12	27,747	194	0	3,760	77	18	316	3,044	-207
13	28,159	412	0	4,074	77	18	316	3,299	-157
14	28,603	444	0	2,529	77	18	316	2,048	154
15	28,480	-123	0	2,051	77	18	316	1,660	-42
16	28,447	-33	0	2,215	75	18	316	1,793	-29
17	28,029	-418	0	2,042	95	18	241	1,653	-246
18	27,547	-482	0	2,275	95	18	241	1,842	-322
19	28,051	504	0	3,680	95	18	241	2,980	-92
20	28,213	162	0	3,194	95	18	241	2,586	-172
21	28,219	6	0	2,300	95	18	241	1,862	-81
22	27,904	-315	0	2,488	95	18	241	2,014	-279
23	28,031	127	0	3,090	95	18	241	2,502	-170
24	27,677	-354	0	2,352	85	17	231	1,904	-294
25	28,040	363	0	2,935	85	15	231	2,377	-44
26	27,901	-139	0	2,988	85	15	231	2,419	-308
27	28,421	520	0	3,124	85	15	231	2,529	-2
28	28,692	271	0	2,210	85	15	231	1,789	47
29	28,539	-153	0	2,114	85	15	231	1,711	-149
30	28,263	-276	0	2,262	85	15	231	1,832	-239
31	28,525	262	0	1,580	88	30	262	1,279	211
Total		91	0	82,659	2,826	579	8,760	66,923	-3,524
Mean cfs			0	2,666	91	19	283	2,159	-114
Acre-feet		91	0	163,961	5,605	1,148	17,376	132,742	-6,999

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Includes 387 AF to Pacheco W.D., 133 AF to the City of Dos Palos and 5,085 AF to San Luis Water District.

3/ Includes 86 AF to the City of Huron, 241 AF to the City of Avenal, 446 AF to the City of Coalinga, 2 AF to Huron P&R @ 22R, 242 AF to Lemoore N.A.S. @ 29L, 0 AF GWF @ 30L, 0 AF to DWR Water Truck at 22R, 0 AF Kings County @ 30L, 0 AF Broadview WD @ 3L, 0 AF DFG @ 4L, 0 AF Pilobos Wildlife @ 4L, 0 AF Mendota Water Fowl Habitat Area @ 6L, 0 AF DFG @ 7L, 0 AF Non-Project Water, 16,359 AF to Westlands Water District.

**Table 21. San Joaquin Field Division Plant Data**

October 2013

(in acre-feet)

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	447	384	93	84	91	4,031	3,830	3,591	3,450
2	414	333	91	86	91	4,393	4,021	3,878	3,737
3	422	399	78	73	78	4,239	3,706	3,595	3,428
4	476	377	91	74	90	3,720	4,115	3,495	3,691
5	415	347	91	85	90	4,391	4,239	3,991	3,911
6	247	240	93	87	92	4,707	4,746	4,570	4,544
7	193	173	72	67	68	3,024	2,732	2,573	2,576
8	246	226	87	83	90	3,627	3,402	3,182	3,112
9	314	292	119	112	115	2,428	2,003	1,851	1,849
10	280	297	82	75	80	2,435	2,078	1,951	1,909
11	268	221	91	85	91	2,002	1,848	1,717	1,777
12	289	243	94	86	92	5,218	5,092	4,809	4,738
13	225	216	78	73	79	5,980	6,352	6,146	6,219
14	187	206	91	84	91	3,315	3,274	3,158	3,302
15	170	181	77	73	77	2,319	1,921	1,780	1,714
16	316	282	91	87	91	2,485	2,269	2,171	2,178
17	304	255	94	83	91	2,602	2,400	2,267	2,218
18	363	330	84	77	83	2,900	2,681	2,514	2,431
19	446	437	81	74	81	4,957	4,617	4,527	4,492
20	423	410	81	76	81	5,019	5,421	5,299	5,256
21	337	355	74	68	74	3,713	3,736	3,583	3,490
22	424	436	73	68	73	3,681	3,828	3,668	3,658
23	486	509	86	81	86	4,142	3,922	3,759	3,782
24	425	450	72	66	72	3,742	3,432	3,319	3,193
25	348	365	75	71	75	4,139	3,768	3,688	3,570
26	389	372	81	76	78	4,972	4,709	4,514	4,442
27	364	311	77	71	76	5,320	5,512	5,298	5,252
28	153	176	74	67	73	3,984	4,043	3,854	3,790
29	84	92	69	65	69	4,014	3,791	3,723	3,616
30	90	101	72	52	56	4,324	3,918	3,797	3,759
31	20	38	39	39	39	2,580	2,447	2,325	2,296
Total	9,565	9,054	2,551	2,348	2,513	118,403	113,853	108,593	107,380

**Table 22. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries

**October 2013**

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A	USBR	Pump-in Recovery	Article 56C	Other		
	No.	Structure	Mile									
7	21	Check No. 21	172.40		132,742							
8C	22		172.66	Empire West Side ID TL - A	0	349						
				County of Kings TL - A	0							
				Tulare Lake Basin WSD TL-A	349							
			175.18	Dudley Ridge WD - 1	248				248			
			177.54	Dudley Ridge WD - 1B	20				20			
			180.64	Tulare Lake Basin WSD - C	0							
			180.65	Dudley Ridge WD - 1A	88				88			
			182.99	Dudley Ridge WD - 2	1,006				97	1/ 909		
			183.00	Tulare Lake Basin WSD TL - B	0							
				County of Kings TL-B	0							
8D	31A		184.00	Dudley Ridge WD - Paramount	1				1			
			184.63	Coastal Branch	9,565							
			184.78	Dudley Ridge WD - 3	702				702			
8D				Dudley Ridge Reach 8D Total:	2,065	0	0	0	1,156	909		
				Tulare Lake Basin WSD Total:	349	349	0	0	0	0		
		Check No. 22	184.82									
9	23		189.69	Kern County Water Agency Lost Hills Water Dist. - 1	2,881				2,881			
			191.18	Kern County Water Agency Lost Hills Water Dist. - 2	628				628			
			194.22	Kern County Water Agency Lost Hills Water Dist. - 3	423				423			
			196.40	Kern County Water Agency Berrenda Mesa - 2	145				145			
			196.75	Kern County Water Agency Lost Hills Water Dist. - 4	846				846			
				K.C.W.A. Reach 9 Subtotal:	4,923	0	0	4,923	0	0		
			Check No. 23	197.05								
10A	24		201.24	Kern County Water Agency Lost Hills Water Dist. - 7	443	103		340				
			202.05	Kern County Water Agency Lost Hills Water Dist. - 5	685	685						
			205.26	Kern County Water Agency Lost Hills Water Dist. - 8	4	4						
			206.99	Kern County Water Agency Semitropic WSD - 3	0							
			Check No. 24	207.94								
10A	25		209.71	Kern County Water Agency Belridge Water Storage Dist. - 1A	1,810	1,810						
			209.78	Kern National Wildlife Refuge USBR BV-1B	3,638		3,638					
				Kern County Water Agency Buena Vista WSD 1B	345	345						
			209.80	KCWA Semitropic WSD	0							
				KCWA Semitropic WSD Penstocks	0							
				USBR Total:	3,638		3,638					
				K.C.W.A. Reach 10A Subtotal:	3,287	2,947	0	340	0	0		

**Table 22. Governor Edmund G. Brown California Aqueduct**  
 San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)							October 2013					
Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Mile			Table A	USBR	Pump-in Recovery	Article 56C	Other		
	No.	Structure										
11B	25		210.75	Kern County Water Agency Belridge - 2	0							
			214.11	Kern County Water Agency Belridge - 3	207	207						
			216.62	Kern County Water Agency Belridge - 4	0							
			217.13	Kern County Water Agency Belridge - 5A-C	8,995	8,995						
				Kern County Water Agency Belridge - 5D	155	155						
		Check No. 25	217.79									
				K.C.W.A. Reach 11B Subtotal:	9,357	9,357	0	0	0	0		
12D	26		219.58	Kern County Water Agency Belridge - 6	0							
				Kern County Water Agency West Kern - 3	523	523						
		Check No. 26	224.92									
12E	27		230.37	Kern County Water Agency Buena Vista - 6	0							
			Check No. 27	231.73								
	28		235.75	Kern County Water Agency Buena Vista - 2	0							
			238.04	Kern County WA CVC	0							
				DRWD CVC	0							
				Tulare Co.	0							
				Lower Tule River	0							
				Fresno Co.	0							
				Pixley ID	0							
				Hacienda DWR Wells	0							
		Check No. 28	238.11									
				1/ Arvin Edison Total:	0	0	0	0	0	0		
				Reach 12E Subtotal:	0	0	0	0	0	0		
13B	29		238.19	Kern Water Bank Inflow	0							
				Kern Water Bank Outflow	0							
			241.02	Kern River Intertie (inflow)	0							
			242.85	KCWA Buena Vista WSD - 7	0							
				KCWA Buena Vista WSD - 5	0							
			243.09	Kern County Water Agency Buena Vista - 3	0							
				Check No. 29	244.54							
	30		249.85	Kern County Water Agency Buena Vista - 4	0							
			Buena Vista Pumping Plant	250.99		118,403						
				K.C.W.A. Reach 13B Subtotal:	0	0	0	0	0	0		
14A	31		254.47	Kern County Water Agency West Kern - 2	0							
			256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	400	400						

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID and Pixley ID.

**Table 22. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

**October 2013**

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries					
	Beginning and Ending		Structure			Table A	USBR	Pump-in Recovery	Article 56C	Other	
	No.	Structure	Mile								
14A	31	Check No. 31	256.14								
	32		258.61	Kern County Water Agency Wheeler Ridge-Maricopa - 3	539	539					
			260.44	Kern County Water Agency Wheeler Ridge-Maricopa - 4	1,572	1,572					
			261.72								
				KCWA Reach 14A Subtotal:	2,511	2,511	0	0	0	0	
14B	33		264.42	Kern County Water Agency Wheeler Ridge-Maricopa - 5	2,851	2,851					
			266.91	Kern County Water Agency Wheeler Ridge-Maricopa - 6	385	385					
			267.36								
	34		270.24	Kern County Water Agency Wheeler Ridge-Maricopa - 7	1,780	1,780					
			271.27								
				Reach 14B Total:	5,016	5,016	0	0	0	0	
14C	35		272.39	Kern County Water Agency Wheeler Ridge-Maricopa - 8	1,312	1,312					
			276.09	Kern County Water Agency Wheeler Ridge-Maricopa - 9	537	537					
			277.30	Kern County Water Agency Arvin-Edison WSD	0						
				Reach 14C Total:	1,849	1,849	0	0	0	0	
	Teerink Pumping Plant		278.13		113,853						
15A	36		279.02	Kern County Water Agency Wheeler Ridge-Maricopa - 9A	219	219					
			280.06	Kern County Water Agency Wheeler Ridge-Maricopa - 10	1,027	1,027					
				Reach 15-A Total:	1,246	1,246	0	0	0	0	
	Chrisman Pumping Plant		280.36		108,593						
	37		282.06	Kern County Water Agency Wheeler Ridge-Maricopa - 11	0						
			283.95								
16A	38		285.01	Kern County Water Agency Wheeler Ridge-Maricopa - 12	31	31					
			286.39	Kern County Water Agency Wheeler Ridge-Maricopa - 13A	79	79					
			287.06	Kern County Water Agency Wheeler Ridge-Maricopa - 13	0						
			287.09								
	39		287.62	Kern County Water Agency Wheeler Ridge-Maricopa - 13B	64	64					
			290.21								
17E	40		291.26	Kern County Water Agency Wheeler Ridge-Maricopa - 14	702	702					
			293.07	Kern County Water Agency Wheeler Ridge-Maricopa - 15	119	119					
				Kern County Water Agency Tehachapi Cummings CWD	849	849					
				K.C.W.A. Reach 16A Subtotal:	1,844	1,844	0	0	0	0	
	Edmonston Pumping Plant		293.45		107,380						

**Table 23. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

**October 2013**

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Mile			Table A	USBR	Pump-in Recovery	Article 56C	Other		
	No.	Structure										
31A	C-1	Coastal Branch Control	0.02		9,565							
		Las Perillas Pumping Plant	1.16		9,565							
	C-2		3.79	Green Valley Water District	0							
		Badger Hill Pumping Plant	4.27		9,054							
	C-3	Coastal Check No. 3	7.21									
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	0							
		Coastal Check No. 4	9.34									
	C-5	Coastal Check No. 5	12.20									
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	575	575						
			14.83	Kern County Water Agency Berrenda Mesa - 1	6,552	6,552						
				Kern County Water Agency Berrenda Mesa - PO	0							
		Devil's Den Pumping Plant	14.86		2,551							
				K.C.W.A. Reach 31A Subtotal:	7,127	7,127	0	0	0	0		
				K.C.W.A. Total:	37,683	32,420	0	5,263	0	0		
33A	C-7	Bluestone Pumping Plant	19.05		2,348							
	C-8	Polonio Pass Pumping Plant	26.54		2,513							
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant								
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	2,220	1,858				1/ 362		
		Tank Site 2	58.63	Central Coast:	0							
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	244	244						
		Energy Dissipater	78.12									
	C-12	Lopez T.O.	85.86	SLOCFC & WCD	0							
				CCWA Total:	2,464	2,102	0	0	0	362		
35	C-12	Guadalupe T.O.	102.70	SBCFC & WCD	0							
		Santa Maria T.O.	107.43	SBCFC & WCD	0							
		So. Cal. Water T.O.	109.20	SBCFC & WCD	0							
38				SBCFC & WCD Total:	0							
		Tank Site 5	115.42									

1/ Includes 325 AF of Article 14B and 37 AF Palmdale WD Table A exchange.

**Table 24. Southern Field Division Plant Data**

(in acre-feet)

**October 2013**

Date	West Branch						East Branch								East Branch Extension		
	Oso Pumping Plant	Warne Powerplant			Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Devil Canyon Powerplant Generation	Green Spot	Crafton Hills	Cherry Valley
		Generation	Leakage	Gorman Crk. Improvement Channel	Generation 1/	Pump-back 1/	Generation	Bypass	Tehachapi Afterbay		Generation	Leakage	Bypass Flume				
1	2,159	2,190	0	0	2,469	0	1,058	0	0	1,049	1,047	0	0	1,141	62	57	32
2	1,963	2,075	0	0	3,048	0	1,603	0	0	1,480	668	0	599	1,054	48	43	32
3	1,956	2,075	0	0	2,910	1,080	1,309	0	0	1,278	0	0	1,232	1,755	59	53	32
4	2,067	2,099	0	0	1,414	0	1,738	0	0	1,796	216	0	1,338	1,977	63	58	33
5	2,282	2,094	0	0	1,379	0	1,730	0	0	1,282	1,384	0	0	1,854	63	58	33
6	2,449	2,087	0	0	0	0	2,009	0	0	1,890	1,837	0	0	1,790	64	57	32
7	1,432	1,837	0	0	2,180	0	1,106	0	0	1,023	1,107	0	0	1,878	65	58	32
8	1,109	746	0	0	1,592	0	1,749	0	0	1,441	1,175	0	0	1,849	63	57	32
9	0	554	0	0	2,294	0	1,842	0	0	1,827	2,001	0	0	1,699	51	45	32
10	0	836	0	0	0	0	1,971	0	0	1,546	1,497	0	0	1,766	55	52	32
11	0	959	0	0	2,421	0	1,576	0	0	1,472	1,527	0	0	1,891	63	58	32
12	2,172	1,236	0	0	310	0	2,583	0	0	2,582	2,698	0	0	1,660	48	43	32
13	3,838	2,071	0	0	0	2	2,300	0	0	2,223	2,275	0	0	1,677	54	53	32
14	899	700	0	0	0	0	2,236	0	0	1,996	2,206	0	0	1,719	56	57	32
15	0	701	0	0	953	0	1,756	0	0	1,448	1,378	0	0	1,670	56	57	32
16	0	828	0	0	1,605	0	2,233	0	0	1,971	1,840	0	0	1,700	56	57	32
17	0	825	0	0	987	0	1,798	0	251	1,876	1,822	0	0	1,851	41	43	32
18	84	313	0	0	662	439	634	0	1,344	1,862	2,003	0	0	1,933	52	53	32
19	1,739	1,107	0	0	1,715	0	2,529	0	496	2,569	2,599	0	0	1,752	58	58	32
20	2,661	1,110	0	0	0	0	2,086	0	0	2,445	2,537	0	0	1,879	56	58	32
21	1,918	1,771	0	0	1,986	967	1,521	0	0	1,478	1,607	0	0	1,775	56	57	32
22	1,866	1,755	0	0	2,869	953	1,939	0	0	1,667	1,847	0	0	1,881	62	57	32
23	1,756	1,753	0	0	3,042	0	1,881	0	0	1,761	1,745	0	0	1,866	67	67	32
24	1,064	921	0	0	983	0	1,970	0	0	1,796	1,783	0	0	1,873	74	48	32
25	1,652	1,894	0	0	3,353	0	1,914	0	0	1,734	1,758	0	0	1,726	74	68	32
26	1,919	1,951	0	0	579	0	2,426	0	0	2,231	2,067	0	0	1,772	68	53	32
27	2,824	2,456	0	0	2,354	0	2,368	0	0	2,231	2,424	0	0	1,710	73	63	32
28	1,970	1,923	0	0	2,956	0	1,735	0	0	1,673	1,602	0	0	1,804	69	62	32
29	1,700	1,924	0	0	2,309	0	1,868	0	0	1,735	1,875	0	0	1,689	63	62	32
30	2,070	1,900	0	0	1,234	0	1,780	0	0	1,549	1,506	0	0	1,653	60	62	32
31	737	1,111	0	0	2,062	0	1,643	0	0	1,640	1,644	0	0	1,645	68	63	32
Total	46,286	45,802	0	0	49,666	3,441	56,891	0	2,091	54,551	51,675	0	3,169	53,889	1,867	1,737	994

1/ Values supplied by LADWP, not verified by DWR.

**Table 25. Pyramid Lake**  
Daily Operation

October 2013													
Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow				Outflow				Computed Losses (-) And Gains (+)	
				Project		Natural	Project		To Piru Creek				
				Castaic Powerplant Pumpback 1/	Warne Power-plant	Gorman Creek Improv. Channel	Stream Flow	Castaic Powerplant Generation 1/	Recrea-tion Deliveries	Natural	Del. To United W.A.		
Sep 30	2,576	166,961											
1	2,575	166,617	-344	0	2,190	0	4	2,469	0	4	0	-65	
2	2,575	165,866	-751	0	2,075	0	4	3,048	0	4	0	222	
3	2,575	165,790	-76	1,080	2,075	0	4	2,910	0	4	0	-321	
4	2,575	166,362	572	0	2,099	0	4	1,414	1	4	0	-112	
5	2,576	166,885	523	0	2,094	0	4	1,379	0	5	0	-191	
6	2,577	168,986	2,101	0	2,087	0	4	0	0	4	0	14	
7	2,577	168,485	-501	0	1,837	0	4	2,180	1	4	0	-157	
8	2,576	167,639	-846	0	746	0	4	1,592	0	4	0	0	
9	2,575	165,942	-1,697	0	554	0	5	2,294	0	5	0	43	
10	2,575	166,630	688	0	836	0	5	0	1	4	0	-148	
11	2,574	165,092	-1,538	0	959	0	5	2,421	0	4	0	-77	
12	2,575	165,866	774	0	1,236	0	5	310	0	4	0	-153	
13	2,576	167,908	2,042	2	2,071	0	6	0	0	4	0	-33	
14	2,577	168,639	731	0	700	0	6	0	0	5	0	30	
15	2,577	168,151	-488	0	701	0	6	953	1	4	0	-237	
16	2,576	167,268	-883	0	828	0	6	1,605	0	4	0	-108	
17	2,576	167,000	-268	0	825	0	6	987	0	4	0	-108	
18	2,576	167,076	76	439	313	0	6	662	0	4	0	-16	
19	2,575	166,515	-561	0	1,107	0	6	1,715	0	5	0	46	
20	2,576	167,460	945	0	1,110	0	7	0	1	4	0	-167	
21	2,577	168,177	717	967	1,771	0	7	1,986	0	4	0	-38	
22	2,577	167,997	-180	953	1,755	0	7	2,869	0	4	0	-22	
23	2,575	166,439	-1,558	0	1,753	0	8	3,042	0	4	0	-273	
24	2,575	166,439	0	0	921	0	8	983	0	5	0	59	
25	2,574	164,814	-1,625	0	1,894	0	8	3,353	0	4	0	-170	
26	2,575	166,057	1,243	0	1,951	0	9	579	1	4	0	-133	
27	2,575	166,019	-38	0	2,456	0	9	2,354	0	4	0	-145	
28	2,574	164,776	-1,243	0	1,923	0	10	2,956	0	5	0	-215	
29	2,574	164,270	-506	0	1,924	0	10	2,309	0	4	0	-127	
30	2,574	164,890	620	0	1,900	0	11	1,234	0	4	0	-53	
31	2,573	163,866	-1,024	0	1,111	0	11	2,062	0	4	0	-80	
Total				-3,095	3,441	45,802	0	199	49,666	6	130	0	-2,735

1/ Values supplied by LADWP, not verified by DWR.

**Table 26. Elderberry Forebay**

Daily Operation

(in acre-feet except as noted)

October 2013										
Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation 1/	Natural	Castaic Powerplant Pumpback 1/	To Castaic Lake			
							Natural	Project 1/		
Sep 30	1514.21	20,841								
1	1510.38	19,331	-1,510	2,469	0	0	0	3,982	3	
2	1509.60	19,031	-300	3,048	0	0	0	3,396	48	
3	1508.59	18,646	-385	2,910	0	1,080	0	2,261	46	
4	1506.03	17,688	-958	1,414	0	0	0	2,332	-40	
5	1508.21	18,502	814	1,379	0	0	0	514	-51	
6	1508.21	18,502	0	0	0	0	0	0	0	
7	1513.66	20,620	2,118	2,180	0	0	0	0	-62	
8	1514.85	21,099	479	1,592	0	0	0	1,137	24	
9	1510.20	19,261	-1,838	2,294	0	0	0	4,080	-52	
10	1503.85	16,892	-2,369	0	0	0	0	2,370	1	
11	1509.39	18,950	2,058	2,421	0	0	0	361	-2	
12	1510.16	19,246	296	310	0	0	0	0	-14	
13	1510.22	19,269	23	0	0	2	0	0	25	
14	1510.18	19,254	-15	0	0	0	0	0	-15	
15	1512.56	20,183	929	953	0	0	0	0	-24	
16	1514.60	20,998	816	1,605	0	0	0	866	77	
17	1507.42	18,205	-2,793	987	0	0	0	3,778	-2	
18	1508.11	18,464	259	662	0	439	0	25	61	
19	1512.60	20,199	1,735	1,715	0	0	0	0	20	
20	1512.53	20,171	-28	0	0	0	0	0	-28	
21	1512.64	20,214	43	1,986	0	967	0	1,000	24	
22	1509.27	18,904	-1,310	2,869	0	953	0	3,197	-29	
23	1509.84	19,123	219	3,042	0	0	0	2,768	-55	
24	1505.73	17,577	-1,546	983	0	0	0	2,555	26	
25	1508.74	18,703	1,126	3,353	0	0	0	2,199	-28	
26	1507.22	18,130	-573	579	0	0	0	1,205	53	
27	1513.26	20,460	2,330	2,354	0	0	0	0	-24	
28	1516.12	21,617	1,157	2,956	0	0	0	1,817	18	
29	1511.65	19,825	-1,793	2,309	0	0	0	4,103	1	
30	1506.96	18,033	-1,792	1,234	0	0	0	3,050	24	
31	1504.60	17,164	-869	2,062	0	0	0	2,971	40	
Total				-3,677	49,666	0	3,441	0	49,967	
65										

1/ Values supplied by LADWP, not verified by DWR.

**Table 27. Castaic Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

**October 2013**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow				Computed Losses (-) And Gains (+)	
				From Elderberry Forebay 1/		Natural	Deliveries	Disposition of Natural Inflows	Released To Castaic Lagoon		
				Natural	Project						
Sep-02	1497.01	284,946									
1	1497.97	286,941	1,995	0	3,982	0	1,794	0	0	-193	
2	1498.70	288,463	1,522	0	3,396	0	1,699	0	0	-175	
3	1498.95	288,973	510	0	2,261	0	1,724	0	0	-27	
4	1499.19	289,484	511	0	2,332	0	1,733	0	0	-88	
5	1498.58	288,213	-1,271	0	514	0	1,726	0	0	-59	
6	1497.74	286,463	-1,750	0	0	0	1,675	0	0	-75	
7	1496.86	284,636	-1,827	0	0	0	1,713	0	0	-114	
8	1496.61	284,118	-518	0	1,137	0	1,753	0	0	98	
9	1497.65	286,275	2,157	0	4,080	0	1,762	0	0	-161	
10	1497.97	286,941	666	0	2,370	0	1,766	0	0	62	
11	1497.26	285,465	-1,476	0	361	0	1,762	0	0	-75	
12	1496.42	283,725	-1,740	0	0	0	1,705	0	0	-35	
13	1495.70	282,238	-1,487	0	0	0	1,512	0	0	25	
14	1494.86	280,509	-1,729	0	0	0	1,672	0	0	-57	
15	1493.91	278,554	-1,955	0	0	0	1,903	0	0	-52	
16	1493.33	277,376	-1,178	0	866	0	2,149	0	0	105	
17	1494.13	279,012	1,636	0	3,778	0	2,075	0	0	-67	
18	1493.14	276,988	-2,024	0	25	0	2,033	0	0	-16	
19	1492.14	274,954	-2,034	0	0	0	1,970	0	0	-64	
20	1491.22	273,090	-1,864	0	0	0	1,878	0	0	14	
21	1490.73	272,100	-990	0	1,000	0	1,944	0	4	-42	
22	1491.37	273,393	1,293	0	3,197	0	1,931	0	7	34	
23	1491.85	274,365	972	0	2,768	0	1,813	0	10	27	
24	1492.13	274,933	568	0	2,555	0	1,924	0	10	-53	
25	1492.33	275,340	407	0	2,199	0	1,783	0	10	1	
26	1492.10	274,873	-467	0	1,205	0	1,793	0	10	131	
27	1491.22	273,090	-1,783	0	0	0	1,729	0	10	-44	
28	1491.37	273,393	303	0	1,817	0	1,659	0	10	155	
29	1492.53	275,746	2,353	0	4,103	0	1,697	0	10	-43	
30	1493.13	276,968	1,222	0	3,050	0	1,749	0	10	-69	
31	1493.41	277,539	571	0	2,971	0	1,758	0	10	-632	
<b>Total</b>				<b>-7,407</b>	<b>0</b>	<b>49,967</b>	<b>0</b>	<b>55,784</b>	<b>0</b>	<b>101</b>	<b>-1,489</b>

1/ Values supplied by LADWP, not verified by DWR.

**Table 28. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (West Branch)

							October 2013					
Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		No.			Table A	Rec.	Article 56C	Article 56C Transfer	Other		
	No.	Structure	Mile									
29A	42	Oso Pumping Plant	1.49		46,286							
29F	W2	Quail Lake	5.02	AVEK Water Agency	Removed							
		Quail Lake Embankment	7.10	Lower Quail Canal Temp (427)	8	8						
		Warne Power Plant	7.82	Antelope Valley-East Kern Water Agency	Stub							
29G			14.07	(0 AF of flow through Gorman Creek Imp. Channel)	45,802							
29H	W3	Pyramid Lake		USFS Pyramid Recreation (T300)	6		6					
				United WA (T300)	0							
		Pyramid Dam	17.10	California State Park Piru Fish (T300)	0							
29J	W4	Castaic Power Plant	25.82	(3,441 AF pump-back ) 2I	49,666							
		Elderberry Forebay										
		Forebay Dam	28.12									
30 1/	W5	Castaic Lake		California State Park								
				Castaic Lake Recreation (T301)	34		34					
		Castaic Dam	31.47									
		Castaic Lake Outlet	31.55	MWDSC 78" & 132" (T302)	51,340	32,072					3/ 19,268	
				Castaic Lake WA 18", 24" & 54" (T303)	2,109	2,109						
				Castaic Lake WA (T304)	2,097	297		1,800				
				MWD-Ventura Co. WPD (T302)	204	204						
					0							
				Disposition of Natural inflows	0							
				Releases to Castaic Lagoon	101							
				Reach 30 Subtotal:	55,784	34,682	34	1,800	0		19,268	
	W6	Castaic Lagoon		California State Park Recreation to Lagoon (T353)	0							
		Castaic Lagoon Outlet	31.87		184							

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

2/ Value Supplied by LADWP, not verified by DWR.

3/ Semi Tropic bank recovery.

**Table 29. Silverwood Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

**October 2013**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow				Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Delivered to CLAWA	Rec.	San Bernardino Tunnel	Del. To Mojave W.A.	Natural To Mojave River		
Sep 30	3351.99	72,063											
1	3351.82	71,901	-162	1,047	0	0	5	0	1,141		64	1	10
2	3351.91	71,987	86	668	599	0	4	0	1,054		99	-24	10
3	3351.20	71,311	-676	0	1,232	0	4	0	1,755		99	-50	10
4	3350.61	70,752	-559	216	1,338	0	3	1	1,977		99	-33	10
5	3350.00	70,176	-576	1,384	0	0	4	0	1,854		99	-3	10
6	3350.13	70,299	123	1,837	0	0	4	0	1,790		40	120	10
7	3349.32	69,538	-761	1,107	0	0	4	0	1,878		0	14	10
8	3348.49	68,763	-775	1,175	0	0	4	0	1,849		1	-96	10
9	3348.92	69,164	401	2,001	0	0	2	1	1,699		0	102	10
10	3348.54	68,803	-361	1,497	0	0	2	0	1,766		0	-90	10
11	3348.09	68,391	-412	1,527	0	0	3	0	1,891		1	-44	10
12	3349.17	69,397	1,006	2,698	0	0	2	0	1,660		0	-30	10
13	3349.70	69,894	497	2,275	0	0	4	0	1,677		0	-97	10
14	3350.15	70,318	424	2,206	0	0	2	1	1,719		0	-60	10
15	3349.92	70,101	-217	1,378	0	0	3	0	1,670		1	79	10
16	3350.08	70,252	151	1,840	0	0	4	0	1,700		0	15	10
17	3349.99	70,167	-85	1,822	0	0	4	0	1,851		0	-52	10
18	3350.08	70,252	85	2,003	0	0	3	1	1,933		0	19	10
19	3351.04	71,159	907	2,599	0	0	4	0	1,752		1	65	10
20	3351.68	71,768	609	2,537	0	0	4	0	1,879		0	-45	10
21	3351.52	71,615	-153	1,607	0	0	4	0	1,775		0	19	10
22	3351.37	71,473	-142	1,847	0	0	4	0	1,881		1	-103	10
23	3351.22	71,330	-143	1,745	0	0	3	1	1,866		0	-18	10
24	3351.08	71,197	-133	1,783	0	0	4	0	1,873		0	-39	10
25	3351.06	71,178	-19	1,758	0	0	4	0	1,726		1	-46	10
26	3351.37	71,473	295	2,067	0	0	4	0	1,772		0	4	10
27	3351.96	72,035	562	2,424	0	0	3	1	1,710		1	-147	10
28	3351.89	71,968	-67	1,602	0	0	4	0	1,804		0	139	9
29	3352.11	72,178	210	1,875	0	0	4	0	1,689		1	29	9
30	3351.80	71,882	-296	1,506	0	0	4	0	1,653		0	-145	9
31	3351.81	71,892	10	1,644	0	0	3	1	1,645		1	16	9
<b>Total</b>				<b>-171</b>	<b>51,675</b>	<b>3,169</b>	<b>0</b>	<b>110</b>	<b>7</b>	<b>53,889</b>	<b>0</b>	<b>509</b>	<b>-500</b>
													<b>302</b>

1/ Project water delivered from Mojave Siphon in exchange for like amount of natural stream flow.

**Table 30. Lake Perris**

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

**October 2013**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Sep 30	1561.98	72,570				
1	1561.92	72,459	-111		84	
2	1561.98	72,570	111		84	
3	1562.01	72,626	56		85	
4	1561.92	72,459	-167		85	
5	1561.92	72,459	0		83	
6	1562.13	72,847	388		85	
7	1561.90	72,421	-426		113	
8	1561.90	72,421	0		125	
9	1561.92	72,459	38		123	
10	1561.90	72,421	-38		72	
11	1561.92	72,459	38		55	
12	1561.90	72,421	-38		56	
13	1561.90	72,421	0		55	
14	1561.79	72,217	-204		60	
15	1561.90	72,421	204		55	
16	1561.90	72,421	0		54	
17	1561.90	72,421	0		75	
18	1561.98	72,570	149		55	
19	1562.06	72,719	149		55	
20	1562.14	72,868	149		56	
21	1562.14	72,868	0		71	
22	1562.14	72,868	0		85	
23	1562.28	73,129	261		94	
24	1562.28	73,129	0		119	
25	1562.36	73,279	150		119	
26	1562.31	73,186	-93		119	
27	1562.28	73,129	-57		119	
28	1562.28	73,129	0		124	
29	1562.36	73,279	150		124	
30	1562.36	73,279	0		124	
31	1562.36	73,279	0		124	
<b>Total</b>			709	4,618	2,737	-1,172

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at Lake Perris.

**Table 31. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (East Branch)

**October 2013**

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Mile			Table A	Rec.	Article 56C	Transfer			
	No.	Structure							Transfer	Local		
17E	40	Edmonston Pumping Plant	293.45		107,380							
	41		298.65	KCWA Tej.-Cas	Stub							
17F		Check No. 41	303.41									
18A	42		304.99	AVEK WA-Temp for TEA construction (T389)	0							
		Check No. 42	304.99									
	43	Alamo Powerplant	305.73	(Includes 56,891 AF generation, 0 AF plant bypass, and 2,091 AF Tehachapi Bypass)		58,982						
			306.71	AVEK 305th Street West (T287)	0		297					
			308.05	AVEK 294th Street West (T267)	297							
19	Check No. 43		309.70									
	44		311.84	LADWP Connection	0							
			313.50	AVEK 245th Street West (T269)	0							
	Check No. 44		314.81									
	45		314.93	AVEK 235th Street West (T270)	0							
			315.57	AVEK 225th Street West (T271)	0							
	Check No. 45		319.74									
	46		323.19	Antelope Valley-East Kern WA Fairmont (T272)		464	464					
				MWA Fairmont (T272)		75						
				Palmdale Water District (272)		0						
			323.84									
				Reach 19 Total:	836	836	0	0	0	0		
20A	47	Check No. 47	326.77									
	48		326.91	Antelope Valley-East Kern WA Willow Springs (T273)	23	23						
			329.65	Antelope Valley-East Kern WA 120th Street West	Removed							
			330.82									
	49	Check No. 49	335.93									
20B	50		336.73	Antelope Valley-East Kern WA Quartz Hill (T274)	2,957	2,957						
			339.68	Antelope Valley-East Kern WA Rancho Vista (T275)	38	38						
			340.92	AVEK WA-Temp (T387)	0							
			341.51									
	51		342.06	AVEK WA-Temp (T386)	0							
		Check No. 51	342.07									
			342.95	Antelope Valley-East Kern WA 30th Street West (T414)	0							
21	52		343.74									
			346.98	Palmdale WD (T276) Temp.	0							
			348.14	Antelope Valley-East Kern WA Acton Treatment Plant (T277)	58	58						
	Check No. 53		348.17									
	54	Check No. 54	350.25									
	55	Check No. 55	352.70									
	56	Check No. 56	354.76									
22A	57		354.97	AVEK WA- Delivered through Littlerock Creek ID (T278)	0							
			354.97	Palmdale WD (T276)	0							
			354.97	Palmdale WD (T391)	0							
			356.93									
	58		357.60	AVEK 95th Street East (T279)	0							
			357.72	AVEK 96th Street East (T280)	0							
			359.76	AVEK East Side Treatment Plant (T281)	278	278						

**Table 31. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (East Branch, Continued)

October 2013

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries								
	Beginning and Ending		Mile			Table A	Rec.	Article 56C	Transfer	Local	Purch. Pool A			
	No.	Structure												
22B	58	Pearblossom Pumping Plant	360.61		54,551	9	244	3	392	302	500	7		
	59	Check No. 59	366.09											
	60		366.50		AVEK Big Rock Siphon (T368)		9							
	61	Check No. 60	373.94											
	62	Check No. 61	379.00											
	63	Check No. 62	384.26		MWA (T282)	244								
		Check No. 63	389.20		MWA (T422)	3								
	64	Check No. 64	395.10											
	65	Check No. 65	400.32											
23	66		401.10		Mojave Water Agency Morongo 24" & 42" (T284)	392	392	302	500	7	500	7		
		Check No. 66	403.41											
24	Mojave Siphon	405.58	Las Flores Ranch Exchange		302									
	Mojave Siphon Power Plant	405.65			51,675									
25	Silverwood Lake	407.65	MWA CS DAM (T288)		500	500	7	500	7	500	7	500		
			California State Park Silverwood (T288)		7									
26A	San Bernardino Intake Tunnel	407.70	Crestline-Lake Arrowhead WA State Project Water (T289)		110	110	110	110	110	110	110	110		
			Non-Project Water (T289)		0									
EBX	Devil Canyon Powerplant	412.73			53,889									
	Devil Canyon Afterbay Control Structures	412.88	MWD-Rialto (T290)		0		12,401	6,133	11,365	12,401	6,133	11,365		
28G			MWD-Rialto (T293)		21,181									
			MWD-Rialto (T294)		0									
			Desert Water Agency Transfer (T293)		6,133									
			Coachella Valley WD (T293)		11,365									
			Coachella Valley WD (T294)		0									
			San Gabriel Valley MWD (T290)		0									
			MWD EBX-1 (T290)		0									
			MWD EBX-1 (T291)		0									
			SBV MWD construction (T428)		2									
			San Bernardino Valley MWD (T290)		82									
28H	East Branch Extension	440.05	San Bernardino Valley MWD (T291)		1,253	1,253	1,253	1,253	1,253	1,253	1,253	1,253		
			San Bernardino Valley MWD (T403)		130									
			San Bernardino Valley MWD (T407)		743									
			San Gorgonio Pass WA (T413)		994									
			MWD Total:		78,726									
			3/ 994											
			1/ 8,780											
			2/ 2											
			1/ 2,623											
28J	Lake Perris	443.44	442.00		MWD-SC (T296)	2,524	2,524	2,524	2,524	2,524	2,524	2,524		
			MWD-SC Box Springs (T295)		2,551									
			MWD-SC (T297)		965									
			MWD-SC 54" & 78" (T299)		165									
			Coachella Valley (T2969)		0									
28G	Santa Ana Valley Pipeline	425.46	Desert Water Agency (T299)		0	3,854	3,854	3,854	3,854	3,854	3,854	3,854		
			MWD Total:		78,726									
28H		433.06	Coachella Valley (T295)		3,854									
			Coachella Valley (T296)		0									
28J		440.05	Desert Water Agency (T296)		0	2,524	2,524	2,524	2,524	2,524	2,524	2,524		
			MWD-SC (T297)		165									
28G		443.44	MWD-SC 54" & 78" (T299)		2,524									
			Coachella Valley (T2969)		0									
28H		443.44	Desert Water Agency (T299)		0									
			Ca. St. Pk. Lake Perris Rec. (T298)		43									
28J		443.44	MWD Total:		78,726		50,678	0	0	0	19,268	0		
			8,780											

1/ Includes 2,957 AF of Table A exchanged, 3,200 AF of Kern-Delta recovery through exchange and 2,623 AF of Arvin-Edison water bank recovery.

2/ SWP construction water (T428)

3/ Transfer of Article 56C Carryover.

**Table 32. Water Quality At Selected SWP Locations**

**October 2013**

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct					
					Banks Pumping Plant	O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	Devil Canyon Headworks
Alkalinity	mg/l as CaCO <sub>3</sub>	39	91	78	73	76	75	72	64	71
Antimony	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/l	<0.001	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003
Beryllium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.2
Bromide	mg/l	<0.01	0.02	0.28	0.32	0.31	0.33	0.37	0.35	0.30
Calcium	mg/l	8	14	19	15	19	19	19	20	19
Chloride	mg/l as C	1.0	14.0	90.0	91.0	100.0	107.0	111.0	111.0	96.0
Chromium	mg/l as C	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0	<0.001
Copper	mg/l	<0.001	0	0	0	0	0	0	0	0
Hardness	mg/l	35.000	85.000	105.000	93.000	107.000	107.000	105.000	100.000	101.000
Iron	mg/l	0.010	0.009	0.008	0.007	<0.005	<0.005	<0.005	<0.005	<0.005
Lead	mg/l as CaCO <sub>3</sub>	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	4	12	14	13	15	15	14	12	13
Manganese	mg/l	<0.005	0.019	<0.005	0.012	<0.005	<0.005	<0.005	<0.005	<0.005
Nitrate + Nitrite	mg/l	<0.01	0.230	0.060	0.040	<0.01	0.040	0.130	0.320	0.080
Organic Carbon, Dissolved	mg/l	NR	3	3	3	3	3	3	2	3
Organic Carbon, Total	mg/l as N	NR	3.000	2.700	2.700	3.000	3.000	2.700	2.400	3.100
Phosphate-Ortho	mg/l as P	0	0.07	0.08	0.08	0.01	0.07	0.06	0.04	0.07
Phosphorus-Total	mg/l	0	0.11	0.08	0.08	0.08	0.08	0.06	0.06	0.08
Selenium	mg/l	<0.001	<0.001	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sodium	mg/l	3.000	17.000	62.000	58.000	67.000	69.000	72.000	76.000	66.000
Specific Conductance	µS/cm	90	256	531	495	557	580	608	598	540
Sulfate	mg/l	2	12	29	21	29	29	36	42	32
Total Dissolved Solids	mg/l	59	141	294	273	309	319	336	331	299
Turbidity	NTU	2	13	4	2	2	<1	2	2	2
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0	<0.005	<0.005

mg/l milligrams per liter

µS/cm microSiemens per centimeter

NTU - nephelometric turbidity units

µg/l micrograms per liter

NR - Not Reported

**Table 33. Water Quality At Selected Delta Stations**

**October 2013**

Date	Antioch Tides (feet above mean sea level)		Flow In CFS		Rio Vista	Electrical Conductivity in milliSiemens/cm								Cl in mg/l		
			Net Delta Outflow Index			Antioch	Chippis Island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal		
	Highest High Tide	Actual High Half Tide	Mean Daily	Monthly Average		md	md	md	14dm	md	14dm	md	md	md		
38	1	5.56	3.99	4,302	4,302	4,432	2.89	9.74	0.78	0.00	0.86	0.93	0.55	0.47	0.52	211
	2	5.48	3.91	4,055	4,179	4,320	2.79	9.47	0.74	0.00	0.81	0.92	0.53	0.46	0.51	204
	3	5.38	3.82	4,312	4,223	4,001	2.66	9.21	0.63	0.00	0.82	0.91	0.53	0.51	0.51	190
	4	5.39	3.72	4,027	4,174	4,208	2.26	8.64	0.50	0.00	0.81	0.89	0.52	0.49	0.50	182
	5	5.58	3.72	3,970	4,133	3,819	2.74	10.10	0.94	0.00	0.83	0.88	0.51	0.44	0.50	190
	6	5.76	3.82	3,366	4,005	3,354	3.18	10.25	1.15	0.00	0.86	0.87	0.52	0.44	0.50	182
	7	6.13	4.10	3,522	3,936	3,474	3.66	11.34	1.48	0.00	0.91	0.87	0.51	0.44	0.50	188
	8	6.31	4.20	3,865	3,927	4,349	4.19	12.13	1.67	0.00	0.98	0.87	0.50	0.43	0.50	165
	9	6.47	4.43	4,189	3,956	5,966	4.84	13.34	1.95	0.00	1.13	0.88	0.50	0.42	0.50	168
	10	6.28	4.41	4,135	3,974	5,053	4.83	12.77	1.85	1.02	1.20	0.90	0.50	0.41	0.50	168
	11	5.98	4.22	3,949	3,972	3,405	4.45	12.52	1.75	1.10	1.04	0.91	0.50	0.44	0.51	158
	12	5.92	4.18	3,762	3,954	3,342	4.27	12.41	1.72	1.18	1.04	0.93	0.51	0.44	0.51	153
	13	5.58	4.02	3,618	3,929	3,246	4.21	11.93	1.53	1.24	1.02	0.94	0.50	0.46	0.51	149
	14	5.37	3.79	4,033	3,936	3,504	3.84	11.44	1.47	1.30	0.97	0.95	0.49	0.49	0.51	147
	15	5.50	3.88	3,671	3,918	3,180	4.07	11.68	1.57	1.35	0.95	0.95	0.50	0.50	0.51	137
	16	5.62	3.92	3,635	3,901	4,572	4.52	12.40	2.03	1.45	1.03	0.97	0.49	0.53	0.51	131
	17	5.90	4.01	3,786	3,894	4,673	4.84	13.00	2.26	1.56	1.10	0.99	0.48	0.56	0.52	129
	18	6.05	4.16	3,626	3,879	4,541	5.45	13.59	2.40	1.70	1.33	1.03	0.48	0.56	0.52	128
	19	6.10	4.15	3,731	3,871	2,884	5.54	13.62	2.55	1.81	1.35	1.06	0.45	0.54	0.53	128
	20	6.12	4.21	3,365	3,846	2,674	5.68	14.01	2.82	1.93	1.41	1.10	0.46	0.52	0.52	128
	21	6.12	4.27	3,163	3,813	3,954	5.73	14.65	2.99	2.04	1.43	1.14	0.46	0.51	0.52	121
	22	5.97	4.20	3,033	3,778	4,767	4.82	12.87	2.25	2.08	1.18	1.16	0.46	0.54	0.55	121
	23	6.06	4.34	4,176	3,795	4,929	5.94	14.77	2.94	2.15	1.67	1.19	0.46	0.65	0.52	118
	24	5.91	4.47	3,922	3,801	4,607	5.98	15.73	3.22	2.25	1.73	1.23	0.48	0.70	0.51	115
	25	5.38	4.20	4,533	3,830	4,904	5.19	13.49	1.92	2.26	1.46	1.26	0.47	0.79	0.53	114
	26	5.17	4.03	5,480	3,893	5,097	4.43	11.41	1.81	2.27	1.34	1.28	0.49	0.75	0.59	111
	27	5.85	4.39	5,398	3,949	4,788	5.74	14.25	3.02	2.37	1.54	1.32	0.51	0.73	0.59	109
	28	5.60	4.33	4,390	3,965	3,389	6.16	15.04	2.97	2.48	1.59	1.36	0.53	0.76	0.58	102
	29	5.53	4.01	7,063	4,072	5,541	5.10	12.83	2.04	2.52	1.25	1.39	0.49	0.78	0.67	105
	30	5.55	3.89	6,134	4,140	5,519	4.75	12.52	1.97	2.51	1.14	1.39	0.43	0.77	0.52	104
	31	5.63	3.85	4,600	4,155	4,294	4.64	12.47	1.77	2.48	1.14	1.40	0.42	0.76	0.42	102

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

N.R. = No Record.

N.C. = Not computed due to insufficient data.

f = Excess Delta conditions with fish concerns.

r = Excess delta conditions with export/inflow ratio concerns.

dm = Daily Mean

s = Balanced water conditions with storage withdrawals.

md = Mean Daily

**Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP**

**October 2013**

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	September 18, 2013	none	0.00
California Aqueduct At Banks Pumping Plant	September 18, 2013	none	0.00
O'Niell Forebay Outlet Check 13	September 17, 2013	none	0.00
Delta Mendota Canal At McCabe Road	September 17, 2013	none	0.00
California Aqueduct Near Kettleman City (Check 21)	September 17, 2013	none	0.00
California Aqueduct At Near Highway 119 (Check 29)	September 17, 2013	none	0.00
California Aqueduct at Tehachapi Afterbay (Check 41)	September 18, 2013	none	0.00
California Aqueduct At Devil Canyon 2nd Afterbay	September 18, 2013	none	0.00

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

**Table 35. Oroville and Delta Field Divisions Energy Data**

(in kWh)		October 2013						
Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	1,925,869	0	33,761	33,348	818,584	818,584	393,925	465
2	2,297,515	0	30,514	30,511	1,077,120	1,077,120	358,534	466
3	2,126,729	539	32,487	34,005	816,712	816,712	383,593	548
4	2,315,445	11	35,865	36,750	1,180,064	1,180,064	391,644	490
5	2,302,179	0	29,774	26,338	821,000	821,000	418,149	496
6	2,233,352	0	35,758	34,810	818,024	818,024	416,394	497
7	2,302,047	0	36,264	34,635	818,176	818,176	349,817	493
8	2,284,260	0	41,816	37,363	565,472	565,472	350,589	476
9	2,311,639	0	38,293	34,972	567,856	567,856	361,908	561
10	2,300,716	0	39,881	35,184	617,816	617,816	357,360	619
11	1,835,669	11	29,130	23,613	613,120	613,120	376,789	627
12	1,825,560	11	31,060	28,647	569,808	569,808	366,726	698
13	1,801,360	0	31,171	28,873	540,008	540,008	299,250	699
14	1,809,885	11	36,192	33,457	539,496	539,496	136,773	637
15	1,807,828	11	38,928	34,715	575,840	575,840	388,114	590
16	1,947,429	11	43,861	38,349	571,568	571,568	409,080	503
17	1,955,206	0	45,968	43,919	539,064	539,064	334,774	444
18	4,061,805	0	52,833	53,496	541,632	541,632	410,483	513
19	4,339,918	0	52,105	51,534	469,280	469,280	416,297	474
20	4,335,540	0	56,343	54,812	464,248	464,248	416,283	468
21	4,352,414	0	53,134	51,413	483,152	483,152	416,336	491
22	4,367,682	0	51,093	48,898	402,512	402,512	416,608	553
23	4,352,502	0	46,907	45,350	424,768	424,768	364,525	521
24	4,329,512	0	40,702	46,216	216,224	216,224	349,006	694
25	4,356,121	0	43,365	48,529	380,576	380,576	380,052	684
26	4,384,281	11	44,850	54,233	383,536	383,536	416,760	624
27	4,366,384	11	39,887	48,557	536,592	536,592	416,339	688
28	4,361,082	11	37,809	44,181	542,480	542,480	413,115	788
29	925,254	0	28,764	38,886	461,960	461,960	419,027	731
30	2,265,208	0	24,915	45,861	1,083,960	1,083,960	415,608	767
31	3,228,687	0	30,644	54,745	1,812,712	1,812,712	415,562	754
Total	89,409,078	638	1,214,072	1,256,200	20,253,360	20,253,360	11,759,420	18,060

**Table 36. San Luis Field Division Energy Data**

(in kWh)							October 2013
Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant				
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/	
1	714,404	666,404	0	0	17,226	17,226	
2	811,598	763,598	0	0	17,391	17,391	
3	984,658	936,658	0	0	17,314	17,314	
4	856,796	808,796	638,209	638,209	4,301	4,301	
5	764,921	716,921	799,535	799,535	814	814	
6	918,745	870,745	0	0	17,050	17,050	
7	541,183	493,183	300,476	300,476	5,038	5,038	
8	678,904	630,904	920,315	920,315	803	803	
9	511,018	463,018	0	0	300,663	24,663	
10	679,660	631,660	0	0	159,082	21,082	
11	498,258	450,258	0	0	17,490	17,490	
12	1,014,012	966,012	1,164,988	1,164,988	5,071	5,071	
13	1,086,010	1,038,010	0	0	590,612	-283,388	
14	694,958	646,958	608,685	608,685	4,708	-133,292	
15	550,876	502,876	832,403	832,403	110	110	
16	604,903	556,903	0	0	15,939	15,939	
17	569,187	521,187	232,727	232,727	555,357	3,357	
18	639,203	591,203	270,215	270,215	573,408	21,408	
19	984,398	936,398	757,218	757,218	431,552	17,552	
20	860,857	860,857	560,703	560,703	572,616	20,616	
21	631,660	631,660	696,245	696,245	561,264	9,264	
22	673,623	673,623	691,097	691,097	571,703	19,703	
23	809,773	809,773	690,998	690,998	531,355	25,355	
24	625,973	625,973	0	0	305,327	29,327	
25	781,445	781,445	745,866	745,866	100,386	8,386	
26	784,091	784,091	693,704	693,704	386,298	18,298	
27	822,026	822,026	488,994	488,994	290,939	14,939	
28	599,130	599,130	824,120	824,120	4,719	4,719	
29	573,518	573,518	501,985	501,985	8,492	8,492	
30	616,675	616,675	347,644	27,644	5,654	5,654	
31	425,844	281,844	0	0	536,811	536,811	
Total	22,308,307	21,252,307	12,766,127	12,446,127	6,609,493	491,493	

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

**Table 37. San Joaquin Field Division Plant Energy Load Data**

October 2013									
Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devil's Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	34,316	85,508	65,393	61,115	63,716	957,371	1,002,121	2,158,343	7,723,458
2	31,082	76,697	64,040	62,269	63,690	1,042,105	1,068,147	2,344,243	8,393,355
3	31,491	79,264	54,975	52,826	54,584	999,535	981,817	2,150,720	7,672,536
4	35,285	84,260	63,771	60,937	62,986	1,037,243	1,062,308	2,286,911	8,269,020
5	32,721	79,053	63,733	61,022	63,024	1,048,372	1,093,716	2,405,975	8,762,256
6	19,011	48,336	64,697	62,742	64,585	1,128,991	1,230,239	2,754,136	10,162,557
7	15,450	38,144	49,732	48,040	47,332	722,029	708,304	1,558,469	5,688,333
8	19,070	49,118	60,671	59,451	62,239	849,175	895,387	1,925,143	6,966,999
9	23,841	60,429	82,355	79,153	79,180	585,293	535,820	1,140,832	4,098,330
10	21,535	55,228	57,397	53,956	56,215	589,075	557,118	1,189,936	4,268,808
11	20,789	54,065	63,885	61,290	63,238	480,010	487,892	1,054,383	3,929,580
12	22,363	56,961	65,681	62,172	63,786	1,239,082	1,319,382	2,895,442	10,580,652
13	17,380	44,331	55,302	52,986	55,000	1,440,790	1,661,400	3,751,946	13,867,767
14	14,172	36,367	63,744	60,413	63,412	833,890	873,841	1,924,164	7,187,238
15	12,667	32,081	54,092	52,710	54,211	563,400	508,988	1,094,368	3,821,931
16	23,822	61,593	63,587	62,729	63,444	593,048	599,069	1,310,826	4,761,747
17	23,600	59,449	65,223	60,174	63,433	625,500	628,168	1,369,676	4,925,529
18	27,978	71,622	58,787	55,854	58,116	695,111	699,532	1,516,053	5,393,331
19	35,599	83,258	56,886	54,532	56,150	1,180,492	1,222,328	2,725,371	10,073,079
20	32,706	79,360	56,617	55,395	56,367	1,262,443	1,429,965	3,203,453	11,763,765
21	25,582	64,992	52,089	49,633	51,678	884,648	987,473	2,176,394	7,836,885
22	31,493	79,029	51,953	49,455	51,270	955,775	1,004,449	2,233,583	8,199,819
23	37,963	91,337	60,351	58,909	59,925	986,978	1,027,048	2,288,407	8,373,834
24	32,800	81,030	51,462	48,386	50,616	891,472	909,227	2,010,536	7,165,125
25	27,256	67,773	53,308	51,279	53,000	984,341	981,839	2,215,488	8,036,280
26	30,522	74,432	57,154	54,772	55,106	1,185,779	1,227,751	2,740,507	9,943,587
27	28,222	71,511	53,746	51,796	53,590	1,273,588	1,436,227	3,205,301	11,776,968
28	11,758	32,517	52,308	48,745	51,478	954,860	1,061,937	2,345,607	8,532,351
29	7,158	19,700	48,597	47,700	48,498	957,152	1,011,456	2,254,868	8,137,773
30	7,132	19,359	41,696	38,406	39,734	1,026,695	1,040,681	2,296,283	8,451,324
31	2,511	6,880	28,375	29,087	28,092	620,125	634,439	1,416,250	5,109,399
Total	737,273	1,843,683	1,781,608	1,707,936	1,757,694	28,594,366	29,888,066	65,943,614	239,873,616

**Table 38. Southern Field Division Energy Data**

October 2013										
Date	West Branch			East Branch				East Branch Extension		
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic Powerplant SWP Gen /1	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation	Green spot Pumping Plant	Crafton Hills Pumping Plant	Cherry Valley Pumping Plant
1	565,274	1,278,110	2,016,000	121,980	706,322	1,378,235	67,696	41,413	49,406	2,909
2	514,483	1,217,624	2,016,000	187,805	987,386	1,293,530	49,649	31,463	36,788	2,865
3	513,778	1,218,926	2,016,000	153,847	854,853	2,145,794	0	37,727	45,070	2,883
4	542,674	1,217,489	2,016,000	203,379	1,199,503	2,390,483	16,688	41,124	49,332	3,208
5	597,979	1,215,915	2,016,000	199,654	860,340	2,239,549	109,248	41,388	49,329	3,575
6	642,186	1,211,533	2,016,000	236,199	1,259,702	2,184,793	147,354	42,909	49,400	3,595
7	378,095	1,088,583	1,328,000	128,432	683,096	2,286,349	77,117	43,134	49,435	3,632
8	289,800	409,563	1,104,000	199,373	961,348	2,263,489	89,706	41,544	49,344	3,582
9	0	303,831	1,104,000	223,537	1,221,745	2,088,850	154,488	33,397	38,532	3,510
10	0	452,301	1,104,000	226,430	1,037,898	2,091,168	115,862	34,597	43,723	3,523
11	3,074	519,278	1,104,000	178,104	986,354	2,235,604	120,575	40,774	49,252	3,531
12	571,309	740,926	1,104,000	299,475	1,723,237	2,031,815	210,777	31,566	36,434	3,545
13	1,003,827	1,201,786	1,104,000	271,757	1,490,826	2,052,886	162,923	33,775	44,882	3,541
14	236,072	383,891	720,000	249,403	1,334,515	2,104,841	163,420	36,248	49,358	3,583
15	0	382,838	720,000	203,480	976,281	2,044,123	104,680	36,560	49,432	3,557
16	0	451,373	720,000	256,692	1,318,625	2,077,355	142,375	36,578	49,379	3,451
17	0	446,645	720,000	208,250	1,272,732	2,260,494	140,495	26,532	36,513	3,424
18	24,322	190,774	720,000	70,215	1,271,251	2,362,867	155,631	32,578	45,092	3,431
19	456,660	602,178	720,000	294,957	1,734,316	2,150,305	196,100	35,579	49,414	3,446
20	696,879	605,086	720,000	244,395	1,652,348	2,304,166	188,561	36,053	49,370	3,440
21	502,444	1,018,545	1,872,000	181,358	999,011	2,169,662	110,986	35,914	49,382	3,487
22	488,193	1,015,748	1,872,000	212,887	1,116,883	2,295,482	140,271	40,491	49,490	3,554
23	461,771	1,030,606	1,872,000	213,989	1,177,828	2,283,595	128,566	42,854	49,355	3,599
24	282,133	527,056	1,872,000	229,940	1,202,130	2,289,269	129,824	42,048	49,309	3,544
25	435,525	1,094,359	1,872,000	222,746	1,158,640	2,112,822	129,084	41,645	49,321	3,426
26	504,601	1,110,318	1,872,000	278,798	1,484,876	2,173,133	155,825	37,684	36,583	3,301
27	738,805	1,401,405	1,872,000	276,702	1,486,308	2,095,063	179,816	40,575	45,107	3,297
28	517,837	1,106,036	1,872,000	206,127	1,122,966	2,219,440	117,765	41,889	49,291	3,243
29	447,550	1,110,470	1,872,000	223,642	1,160,095	2,073,848	135,687	37,748	49,162	3,225
30	544,137	1,058,729	1,872,000	208,425	1,041,002	2,031,473	115,933	35,597	49,290	3,396
31	199,051	606,647	1,872,000	189,431	1,098,152	2,018,426	113,748	35,670	49,424	3,437
Total	12,158,458	26,218,571	45,680,000	6,601,407	36,580,566	65,748,910	3,870,851	1,167,057	1,445,199	105,741

1/ Energy delivered to SWP by LADWP at Sylmar substation; not necessarily related to actual Castaic operations.